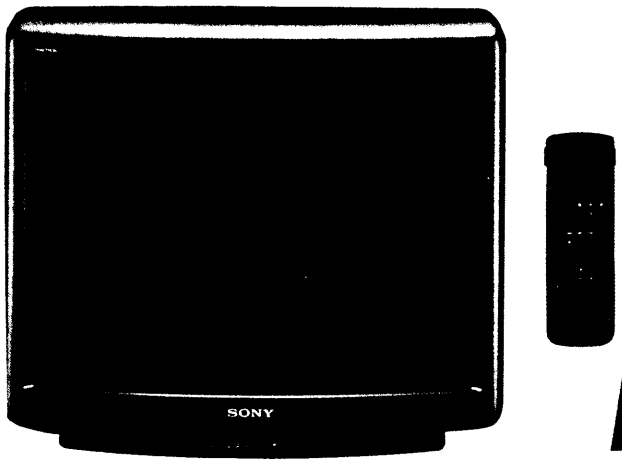
KV-X2552U/X2952U

RM-816

SERVICE MANUAL

UK Model

KV-X2552U
Chassis No. SCC-E23P-A
KV-X2952U
Chassis No. SCC-E23Q-A



AE-1C CHASSIS

MODELS OF THE SAME SERIES	
KV-X2552U/X2952U	KV-E2522U/E2922U
KV-C2552U/C2952U	KV-C2122U
KV-A2112U/A2512U	

SPECIFICATIONS

【KV-X2552U/X2952U】

Television system	I
Colour system	PAL
Stereo system	NICAM stereo
Channel coverage	UHF: B21-B69
Picture tube	HI-Black Trinitron tube Approx. 63 cm (25 inches) (Approx. 59 cm picture measured diagonally) 110 ° degree deflection Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally) 110 ° degree deflection

Inputs Outputs Terminals

REAR

21 pin Euro connector (CENELEC standard)	-Inputs for audio and video signals -Inputs for RGB -Outputs of TV video and audio signals
2/21-pin Euro connector	-Inputs for audio and video signals -Inputs for S-video -Outputs for video and audio signals (selectable)

Audio output(vartable) -phono jacks

Video input phono jack

Audio inputs (L,R) phono jacks

S-video Inputs-4pin DIN

Headphone jack : stereo mini jack

Sound output	30 W + 30 W
Power consumption	158W (KV-X2552U) 173W (KV-X2952U)
Dimensions incl.speakers	Approx. 575×488×487 mm (w/h/d) (KV-X2552U) Approx. 656×560×518 mm (w/h/d) (KV-X2952U)

- Continued on next page -

MICROFILM

TRINITRON COLOUR TV

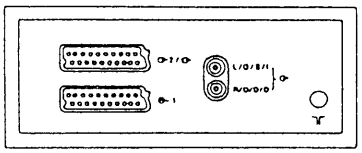
SONY®

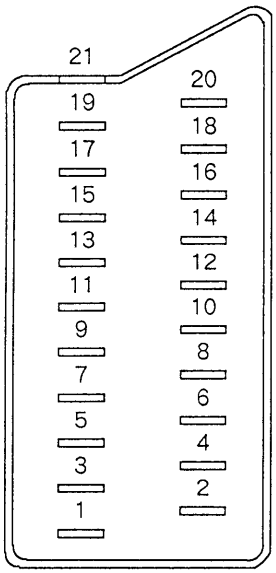
Weight incl.speakers	Approx. 35kg (KV-X2552U) Approx. 51kg (KV-X2952U)
【RM-816】	
Remote control system	infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)

Dimentions	Approx. 75×221×23mm(w/h/d)
Weight	Approx. 230g (including batters)
Accessories supplied	IEC designation R6 batteries (2)
Supplied accessories	RM-816 Remote Commander (1) IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

21 pin connector (1 2)





Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
7	○	●	Blue input	0.7±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5−12V) : Part mode Low state (0−2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	−	Red input	0.7V±3dB, 75ohms, positive
	−	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1−3V) Low state (0−0.4V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync : 0.3V (−3, +10dB)
20	○	−	Video input	1V±3dB, 75ohms, positive Sync : 0.3V (−3, +10dB)
	−	○	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync : 0.3V (−3, +10dB)
21	○	○	Common ground (plug, shield)	

○ Connected ● unconnected (open) *at 20Hz−20kHz

4 Pin connector ( )

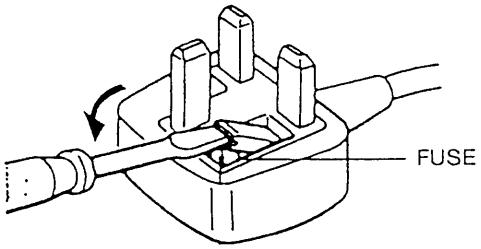
Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V±3dB 75ohm, positive Sync $0.3V^{-3}_{+10}$ dB
4	C (S signal) input	0.3V±3dB 75ohm, positive

TABLE OF CONTENTS

Section	Title	Page
1.	**GENERAL**	
1-1.	Switching ON/OFF	4
1-2.	Presetting	4
1-3.	Basic TV Operation	6
1-4.	Advanced TV Operation	7
1-5.	Teletext Operation	8
1-6.	Optional Connections/Operations	9
1-7.	Additional Remote Commander Operation	10
1-8.	Additional Information	10
2.	**DISASSEMBLY**	
2-1.	Rear Cover Removal	12
2-2.	Chassis Assembly Removal	12
2-3.	A, A1, and J1 Boards Removal	13
2-4.	B and V Boards Removal	13
2-5.	Service Position	13
2-6.	Picture Tube Removal	14
3.	**SET-UP ADJUSTMENTS**	
3-1.	Beam Landing	15
3-2.	Convergence	16
3-3.	Focus	18
3-4.	White Balance	18
4.	**CIRCUIT ADJUSTMENTS**	
4-1.	A Board Adjustment	19
4-2.	A1 Board Adjustment	19
4-3.	B Board Adjustment	19
4-4.	D Board Adjustments	20
4-5.	J1 Board Adjustments	20
4-6.	V Board Adjustment	21
4-7.	Secondary Adjustments	21
5.	**DIAGRAMS**	
5-1.	Block Diagram	23
5-2.	Circuit Boards Location	29
5-3.	Schematic Diagrams and Printed Wiring Boards	29
5-4.	Semiconductors	58
6.	**EXPLODED VIEWS**	
6-1.	Chassis	60
6-2.	Picture Tube	61
7.	**ELECTRICAL PARTS LIST**	62

Warning

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS1362, ie carries the ⊕ mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING !!

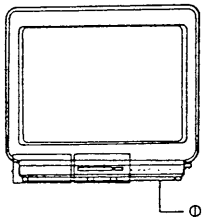
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

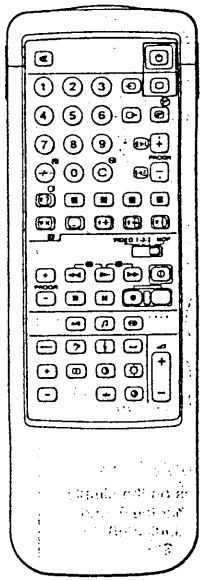
For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- sales@mauritron.co.uk

SECTION 1
GENERAL

1-1. SWITCHING ON/OFF

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).



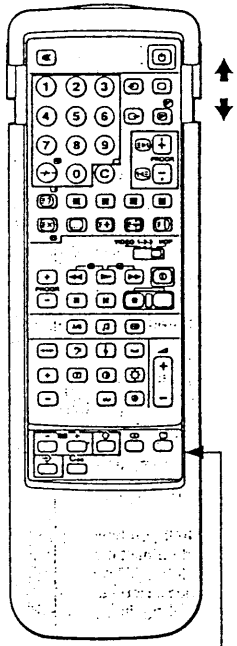


How to turn the TV on

Action	Result
Press ⏻ on the TV.	The TV will turn on. **Note:** If the screen remains blank, the TV may be in the standby mode. Press ○ or any number button on the commander to switch it on.

How to turn the TV off

A Temporarily	
Press ⏻ to enter standby mode.	The TV will be in standby. To return to the TV mode press ○
B Completely	
Press ⏻ on the TV.	The TV will turn off.



Note: These buttons should be used in preset mode only.

1-2. PRESETTING

After you have installed the TV you need to preset TV channels.

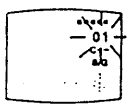
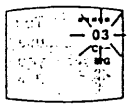
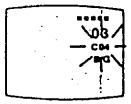
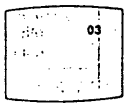
TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on the TV before you can watch the TV programmes.

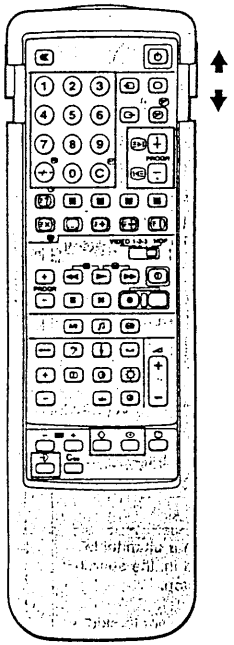
There are 60 spaces for storing these channels.

Slide open the full function side of the remote commander to reveal preset buttons.

How to preset channels automatically

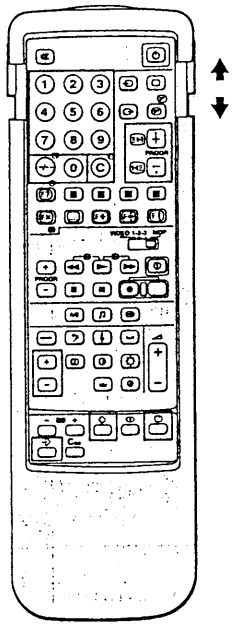
If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".

Action	Result
1 Press → to enter the preset mode.	 The programme number will start flashing.
2 Press PROGR + or - or the number buttons to select the programme number to which you want to preset a channel. **Note** To select a double-digit number, use the -/— button. For example, if you want to choose 23, press -/—, 2, and then 3.	 The programme number changes
3 Press ⊞+ or - once to search forward or backward for channels.	 When a channel is tuned in, the search will stop. **Note** If you want to skip a channel, press ⊞+ or ⊞−.
4 Press ◇ if you want to store the channel which is tuned in. Press → to exit preset mode without storing.	 The channel is now stored and you have returned to TV mode.
5 Repeat steps 1 to 4 to store the other channels.	



How to preset channels directly

Action	Result
1 Press ⇨ to enter the preset mode.	The programme number will start flashing.
2 Press PROGR +/– or the number buttons to select the programme number on which you want to preset a channel. **Note** To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3.	The programme number changes.
3 Press C.	The indication "C–" starts flashing on the display.
4 Select the channel number with two digits (e.g. 04) by pressing the number buttons. **Note** Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled.	The channel number changes. **Note** If you have made a mistake the letter "X" will appear. Repeat step 4 again.
5 Press ◇ to store the channel which is tuned in. Press ⇨ to exit the preset mode without storing.	The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 5 to store the other channels.	



How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

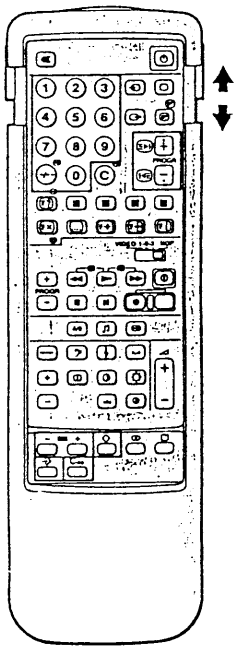
Action	Result
1 Select a programme number you want to name by pressing the PROGR +/– or the number buttons	The selected programme number will appear.
2 Press ⇨.	The programme number starts flashing.
3 Press C.	The first column of the station name indication will start flashing.
4 Press + or – to select a letter in the alphabet, a number, or a blank space.	The letters of the alphabet, numbers and the space ("–") will appear sequentially.
5 Press C.	The first character is now set and the second column will start flashing.
6 Repeat steps 4 and 5 to set each letter.	
7 Press ◇.	The channel name is now stored and you have returned to TV mode.

How to tune in a channel temporarily

You can tune in a channel temporarily, if it has not been preset.

Action	Result
1 Press C.	The indication "C" appears on the screen.
2 Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	The channel is received, but it is not stored to any programme number.

1-3. BASIC TV OPERATION



How to Skip Programmes

Using the PROGR +/– buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Action	Result
1 Press ⊰ to enter the preset mode.	The programme number will start flashing.
2 Select the programme number that you want to skip by pressing PROGR +/– or the number buttons.	The programme number changes.
3 Press C₀₀.	The lowest channel number appears under the programme number.
4 Press ◇.	The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 4 to skip other programme numbers.	

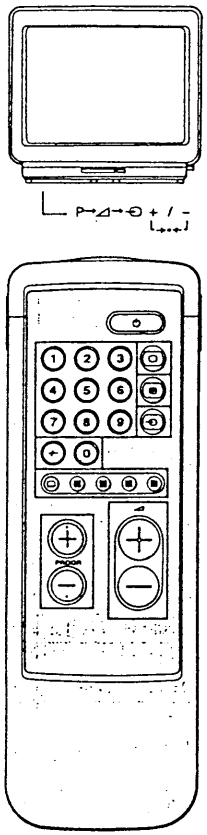
How to Fine Tune Manually

If the picture is distorted, you can fine tune the channel manually.

Action	Result
Press ⊞ + or – repeatedly until the picture looks normal.	The indication ← F → appears on the screen.
Press ⊰ to enter the preset mode.	The programme number starts flashing.
Press ◇.	The fine tuning is stored.

Note: Normal tuning can be restored if you preset the channel once more.

Note: Press ⊥ on door to open.



This section introduces you to the basic control functions which are available on the simple side of the remote commander.

How to Select Programmes

Before you can select programmes make sure that you have preset channels.

Action	Result
Press PROGR +/– or the number buttons. To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3.	23 The selected programme is displayed.

How to Adjust the Volume

Action	Result
Press ◿ + or –.	The volume markers will appear. and are adjusted accordingly.

How to Use additional features

Basic teletext operation

Select

The ▣ button to view the teletext.

The ▢ button to request subtitles (P.888).

One of the coloured buttons for fastext operation.

The ▢ button to return to TV mode.

For details about teletext operation.

How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the P→◿→⊖ and →•← +/– buttons on the front of the TV.

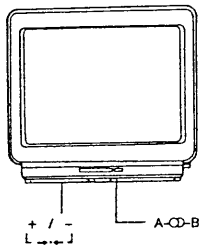
For operation, first press the P→◿→⊖ button repeatedly so that the P (for programme) or ◿ (for volume) indication appears on the screen, and then adjust with the →•← +/– buttons.

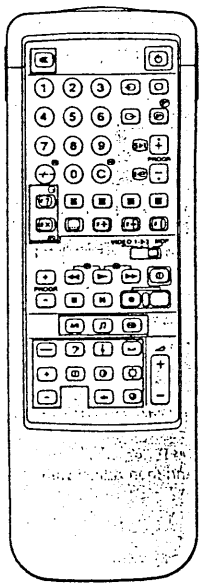
Note: To restore to factory set level press → • ← + / - together.

How to view the video input picture

Press ⊰ To return to the TV mode, press ▢. For further details,

1-4. ADVANCED TV OPERATION





This section shows you how to use convenient features and how to adjust the picture and sound to your taste.
Use the full-function side of the Remote Commander.

How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	To resume normal picture/sound
Display on-screen indications	Press ⊡	Indications disappear after some seconds
Display programme numbers	Press ⊡ twice	Press ⊡ twice again.
Mute the sound	Press 🔇	Press 🔇 again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-CD-B indicator on the TV lights up.	Press A/B.
Set the sound for music listening.	Press ♫.	Press ♫ again.
Use the space sound (special acoustic effect)	Press ⊕⊕	Press ⊕⊕ again.
Request the time	Press ⊙.	Press ⊙ again.

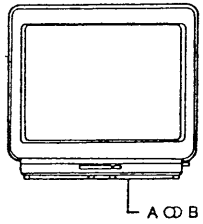
How to adjust the picture and sound

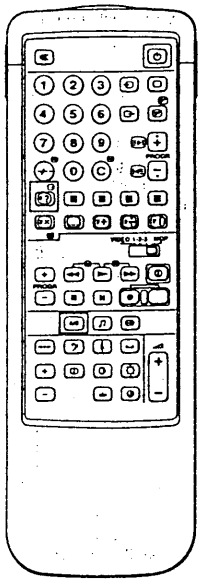
Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps below.

To Adjust:	Press:	Then:	Result: (+ ⟷ –)
Picture:			
Colour Intensity	◔	+ / –	More ⟷ Less
Picture Contrast	◑		More ⟷ Less
Brightness	☼		Bright ⟷ Dark
Hue (for NTSC only)			Reddish ⟷ Greenish
Picture Sharpness (only for KV-X2952U)			Sharp ⟷ Soft
Sound:			
Bass		+ / –	More ⟷ Less
Treble			More ⟷ Less
Balance			More Right ⟷ More Left

To reset the picture and sound to factory set levels press →·←.

On the set:
Press →·← +/– buttons simultaneously.





How to select a NICAM broadcast

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, the ⋈ symbol appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the ⋈ symbol appears. To check if the channel you are watching is receiving Nicam, press the on screen display button ⊡ on the full function side of the remote commander.

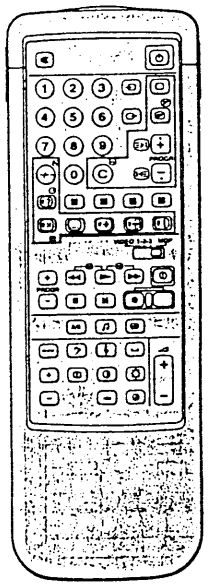
How to select the sound of your choice

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these, by pressing the ⊖ button on the full function side of the remote commander.

Service being broadcast	Action	The sound you hear	Indication on the TV A CD B
Nicam		Stereo/ Mono (2 channel)	☀ ☀
	Press A/B	Normally broadcast sound	▭ ▭
	Press A/B again to return to stereo / Mono (2-channel)		
Bilingual		Language A	☀ ▭
	Press A/B	Language B	▭ ☀
	Press A/B	Normally broadcast language	▭ ▭
	Press A/B again to return to language A		

* Depending on availability of service.

1-5. TELETEXT OPERATION



TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.
With the simple side of the Remote Commander, only the basic operation is possible.

How to View the Teletext

Action	Result
1 Select the channel which carries the teletext service you wish to see.	The channel changes on the screen.
2 Press ▤.	If the teletext signal is not broadcast, then p100 is displayed.
3 Input three digits for the page number using the number buttons. **Note** If you make a mistake, type in any three digits, then re-enter the correct page number.	The numbers are entered on the screen. The requested page will appear in a few seconds.
To return to the TV mode. Press ▢. **To change the teletext channels** First press ▢ to return to the TV mode, then repeat steps 1 to 3.	

Note
If the signal of the TV channel is weak, teletext errors may often occur.

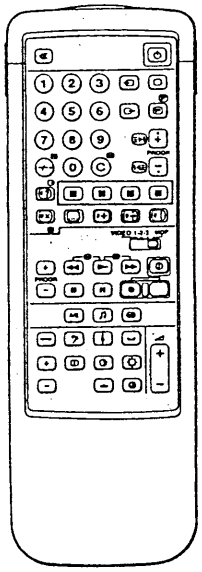
How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press ▤ (INDEX).	The index page appears.
Request the subtitle page (p888).	Press ▢.	The subtitle page is displayed (p888).
Access the next or preceding page.	Press ▤ (PAGE +) or ▤ (PAGE –).	The next or preceding page appears.

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press ▤ once if you are in text mode, or press ▤ twice if in TV mode. To return to the normal teletext display press ▤ again.	The teletext displays are superimposed on the TV programmes.
Prevent a teletext page from being updated or changed.	Press ▤ (HOLD). To resume normal teletext reception, press ▤ (TEXT/MIX).	The HOLD symbol (▤) appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press ▤ once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	The upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press ▤ (REVEAL). Press again to conceal the information.	The information is revealed.
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page.	The numbers are entered.
	2. Press ▤ (TEXT CL).	The TV programme is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	
	4. Press ▤ to view this page.	The requested page is displayed.
Have a requested page displayed at a pre-determined time.	1. Request a desired page.	The requested page is displayed.
	2. Press ▤ (TP ON).	"T*****" appears at the bottom of the screen.
	3. Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.)	The time is entered on the screen.
	4. Press ▤ (TEXT CL) to watch the TV programme until the requested time.	At the requested time, the page number will be displayed at the top of the screen, to view this page, press ▤.
	To cancel the request Display the teletext page, then press ▤ (TP OFF).	The request is cancelled. To resume TV mode press ▢.

Some of the features may not be available depending on the Teletext service.

1-6. OPTIONAL CONNECTIONS / OPERATIONS



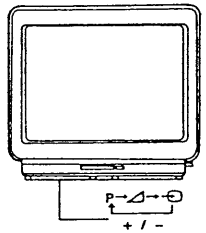
How to use the FASTEXT Feature

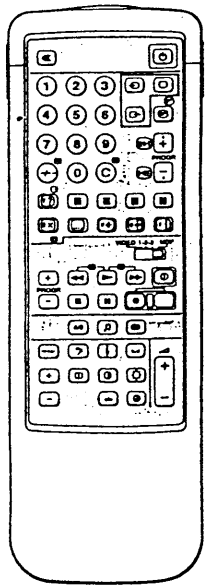
FASTEXT feature allows you to access pages quickly with one key operation. When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the coloured buttons on either side of your Remote Commander.

Operation

Action	Result
Press one of the coloured buttons which correspond to the coloured prompt on the teletext.	The selected teletext page appears.

Note
Correct FASTEXT operation depends on the necessary signals sent from the TV station.





How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation

Action	Result
Press repeatedly to select the desired input.	1 — Symbol for the selected input appears. (See the table below.)
To return to the TV mode, press the button.	

Input modes

	Result
1	Audio/video input through the connector.
	RGB input through the connector.
2	Audio/video input through the 2/ connector.
2	S video input (from a VTR equipped with an S video output) through the 2/ connector.
3	Audio/video input through and jacks on the front.
3	S video input through the connector on the front (4-pin connector)
You can also select the input mode using the P button on the TV. In this case, first select and then press +/– buttons to select the input.	

How to select the Output

The 2/ connector outputs four kinds of audio/video signals. You have to select one of them as follows.

Operation

Action	Result
Press repeatedly to select the desired input.	1 — Symbol for the selected output appears. (See the table below.)

Output modes

Symbol	Output from
1	The audio/video signal from the 1 connector
2	The audio/video signal from the 2/ connector
3	The audio/video signal from the jacks.
TV	The audio/video signal from the aerial terminal.

1-7. ADDITIONAL REMOTE COMMANDER OPERATION

How to Control Other Sony Video Equipment

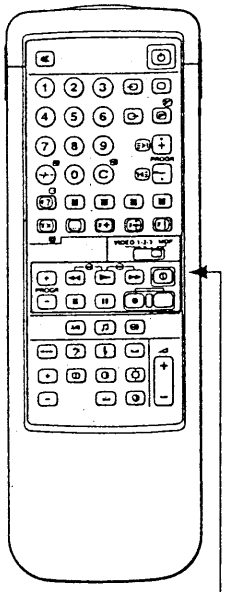
By switching the VIDEO 1/2/3, MDP selector, you can operate most Sony video equipment (Beta VTR, 8mm VTR, VHS VTR, and video disc player).

1 Set VIDEO 1/2/3, MDP selector according to the desired video equipment.

VIDEO 1: Beta or ED Beta VTR
VIDEO 2: 8mm VTR
VIDEO 3: VHS VTR
MDP: Video disc player

2 Use the buttons in the indicated area to operate video equipment.

Note
When you use ● button, be sure to press this button and the one on the right simultaneously.



Buttons to operate other Sony Video equipment

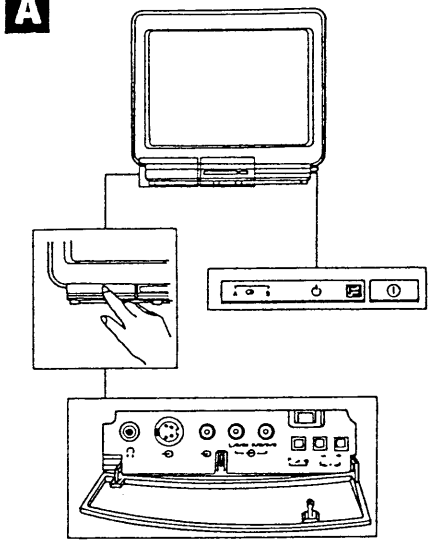
Notes

- If your video equipment is furnished with COMMAND MODE selector, set the selector to the same position as the VIDEO 1/2/3, MDP selector on the supplied Remote Commander.
- If the equipment does not have a certain function, the corresponding button on the Remote Commander will not work.

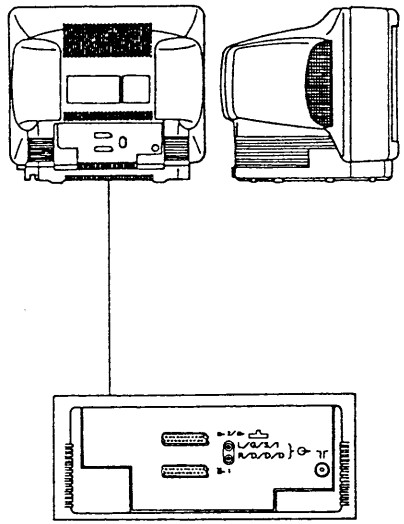
1-8. ADDITIONAL INFORMATION

Parts Identification

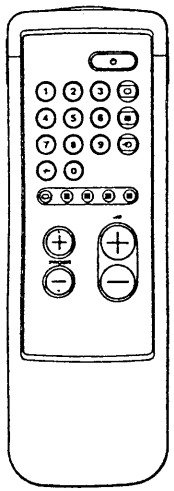
A



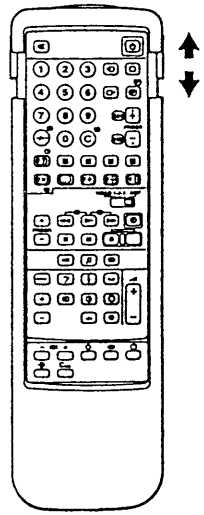
B



C



D



This section briefly describes the buttons and controls on the TV set and on the Remote Commander.
For more information,

A TV set – Front

Sign	Name
⏻	Main power switch
⏻	Standby indicator
A-◯◯-B	NICAM indicators
∩	Headphones jack (stereo minijack)
⊖⊖	Input jacks (S-video /video/audio)
P→◿→⊖	Function selector (Programme/ volume/input)
− +	Adjustment buttons for function selector

B TV set – Rear

Sign	Name
⊖2/⊖3	21-pin Euro-AV connector (S-video/video input, TV/video output)
⊖	21-pin Euro-AV connector (RGB/ video input, TV output
⊖	Audio output jacks (phono jacks)
⊤	Aerial terminal (IEC type)

C Remote Commander – simple side

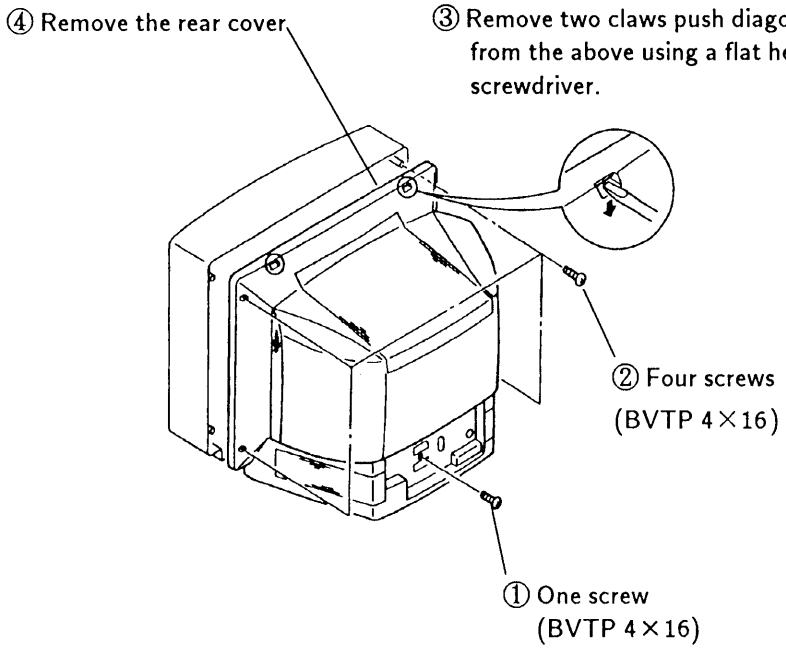
Sign	Name
⊖	Input mode selector
▤	Teletext button
■■■■	Fastext buttons
▢	TV mode selector
⏻	Standby button
1,2,3,4,5, 6,7,8,9, and 0	Number buttons
-/—	Double-digit entering button
◿+/−	Volume control buttons
PROGR +/−	Programme selector

D Remote Commander – full function side

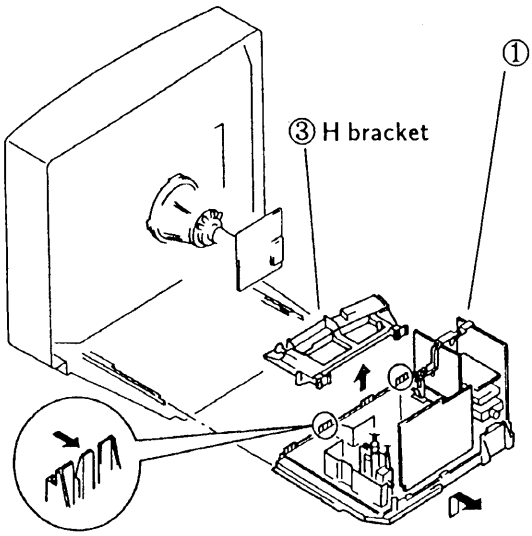
Sign	Name
🔇	Mute on/off button
⏻	Standby button
1,2,3,4,5, 6,7,8,9, and 0	Number buttons
⊖	Input mode selector
▢	TV power on/TV mode selector button
⊖	Output mode selector
▤	Teletext button
♫	Music button
A/B	Selector for NICAM
-/—	Double-digit entering button
C	Direct channel entering button
⊖⊖	Space sound button
◎	Request time display
?⊗▢◯▶ PIP▮⊞⊞⊞	Teletext operation buttons
■■■■	Fastext buttons
⊖	On-screen display button
→•←	Picture and sound adjustment reset button
◿+/−	Volume control
PROGR +/−	Programme selector
◑☼◔◿ ◿♪♭ +/−	Picture and sound controls
VIDEO 1/2/3, MDP	Video equipment selector
◀◀▶▶▶ ■ ❚❚ ●	Video equipment operation buttons
Coo	Programme number clear button
⇨	Channel preset button
− ⊖ +	Tuning buttons
◇	Channel store button
▢	Station label button

SECTION 2
DISASSEMBLY

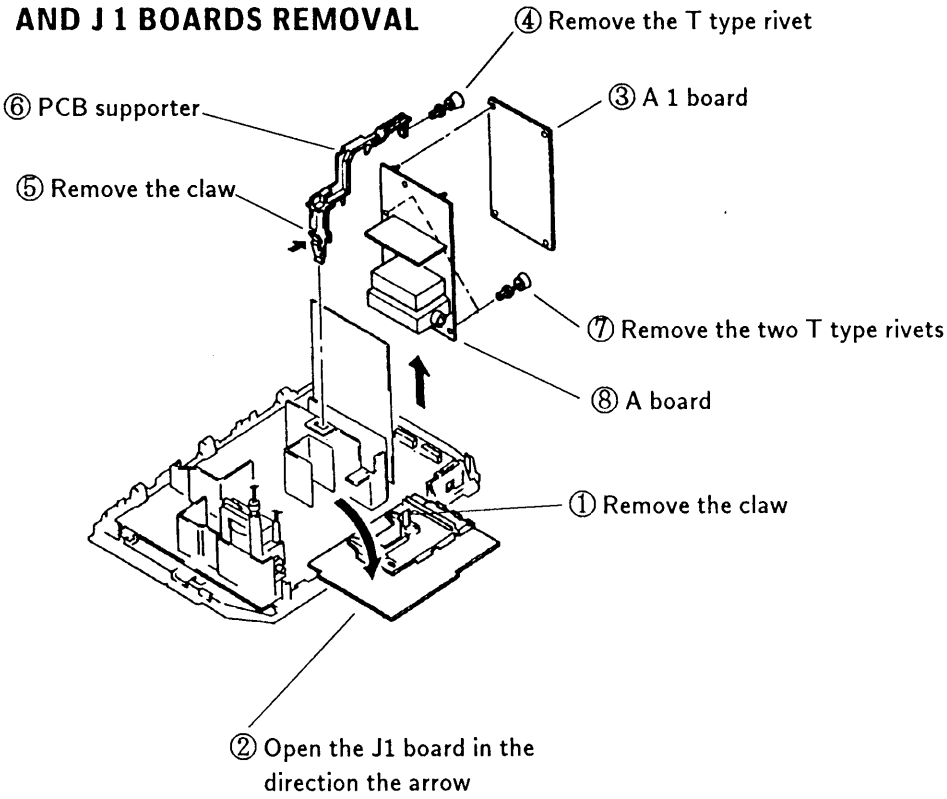
2-1. REAR COVER REMOVAL


④ Remove the rear cover
③ Remove two claws push diagonally from the above using a flat head screwdriver.
② Four screws (BVTP 4×16)
① One screw (BVTP 4×16)

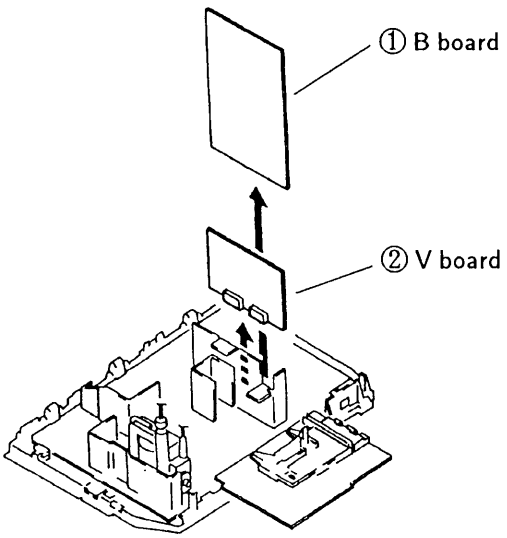
2-2. CHASSIS ASSEMBLY REMOVAL


① After the assembly of the main chassis, lift and pull out the rear part of the main chassis toward the rear.
③ H bracket
② Push the two claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

2-3. A, A1 AND J 1 BOARDS REMOVAL

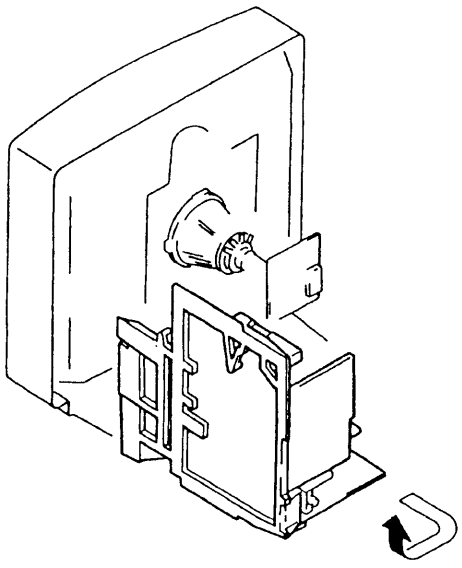

④ Remove the T type rivet
⑥ PCB supporter
③ A 1 board
⑤ Remove the claw
⑦ Remove the two T type rivets
⑧ A board
① Remove the claw
② Open the J1 board in the direction the arrow

2-4. B AND V BOARDS REMOVAL



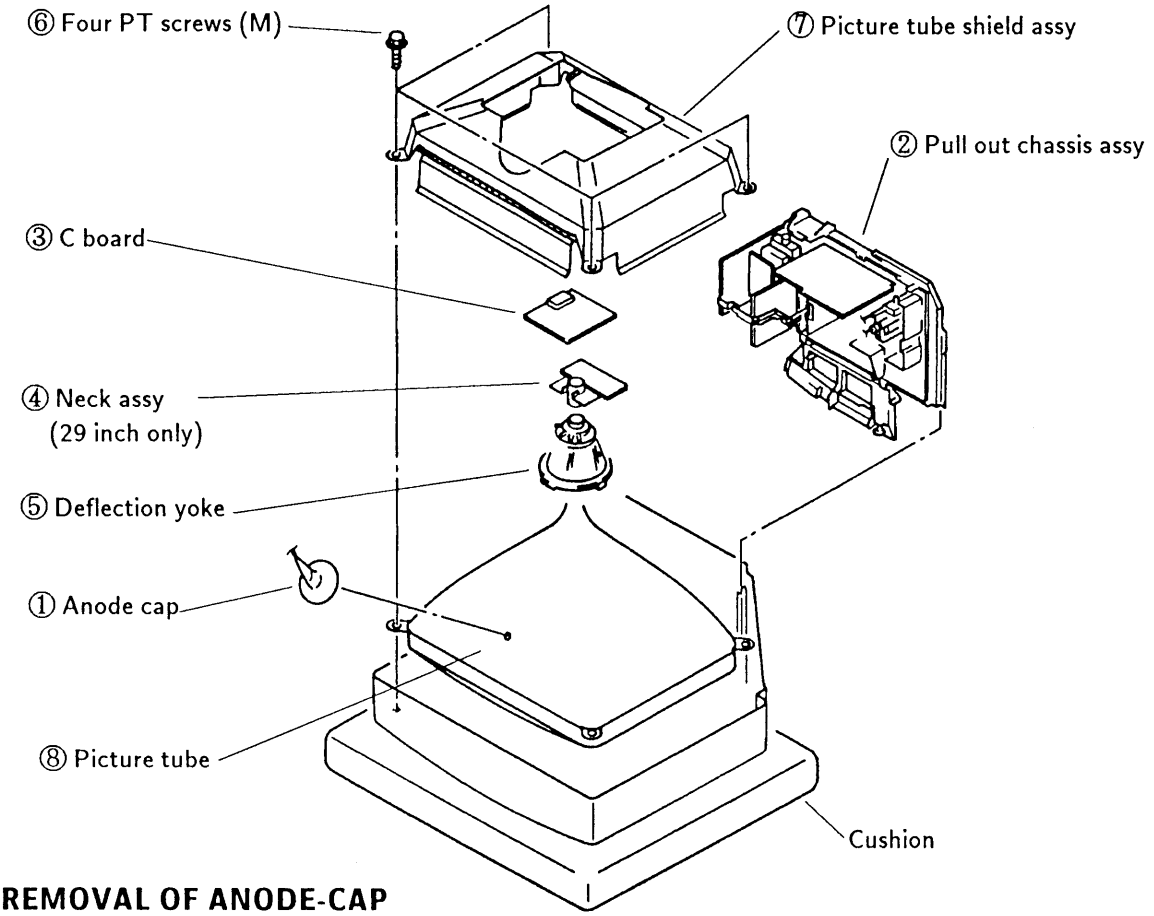
Note : 10 pin extension cable (S-0945-001-0)

2-5. SERVICE POSITION



① Remove main chassis assembly in the direction of the arrow.

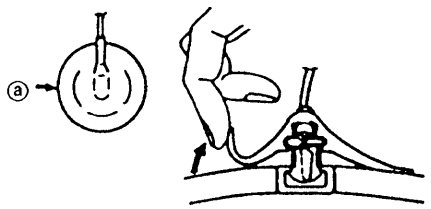
2-6. PICTURE TUBE REMOVAL



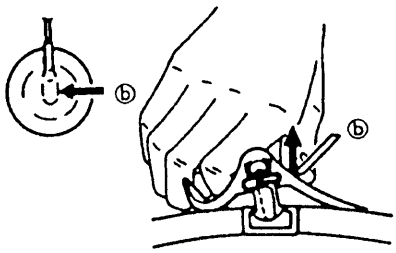
• REMOVAL OF ANODE-CAP

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

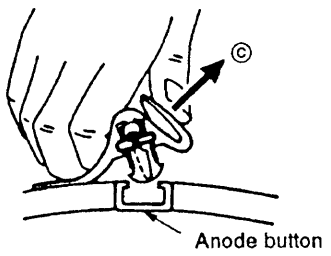
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



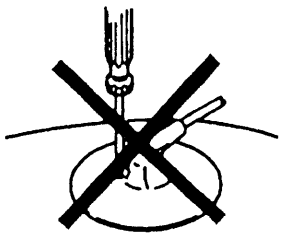
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

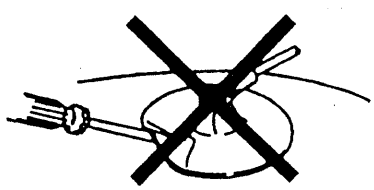
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECITON 3
SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
  - ◑ Contrast ·····80%
    (or remote control normal)
  - ☼ Brightness ·····50%

- Carry out the following adjustments in this order:
  1. Beam landing
  2. Convergence
  3. Focus
  4. White balance

Note : Testing equipment required
1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations :
- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast
   Bightness } normal
2. Position neck ass'y as shown in Fig 3-2. (29 inch only)
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

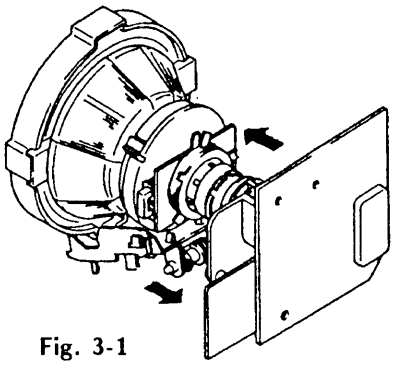
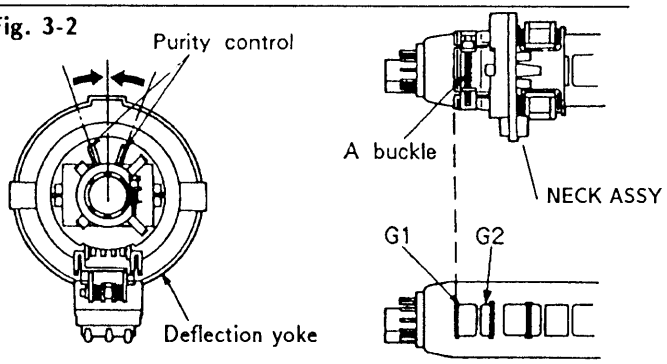


Fig. 3-1

Fig. 3-2



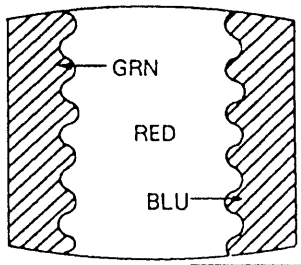


Fig. 3-3

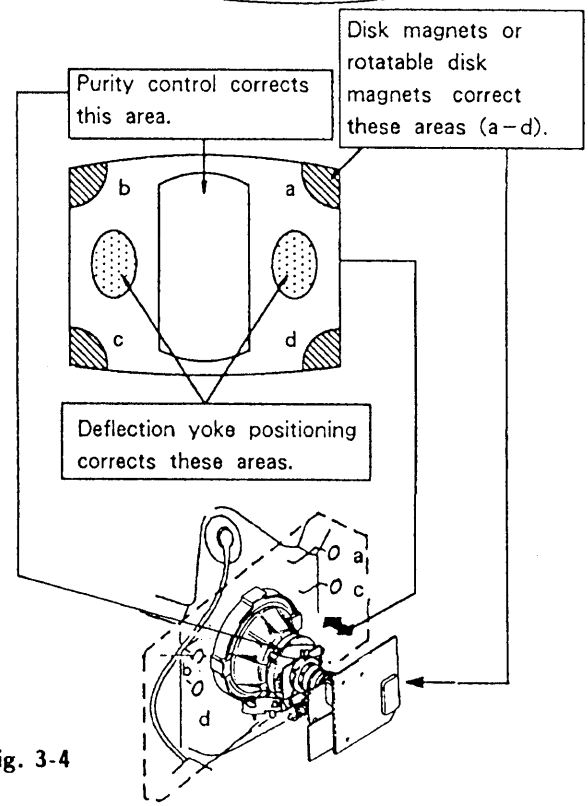


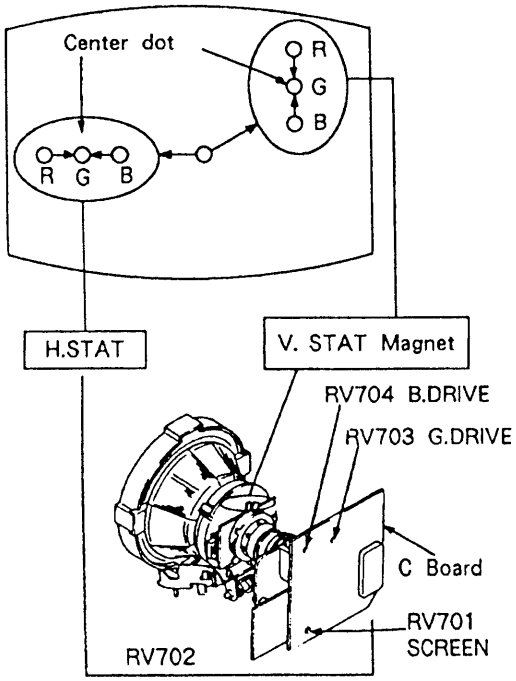
Fig. 3-4

3-2. CONVERGENCE

Preparations :

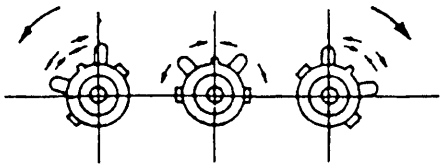
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

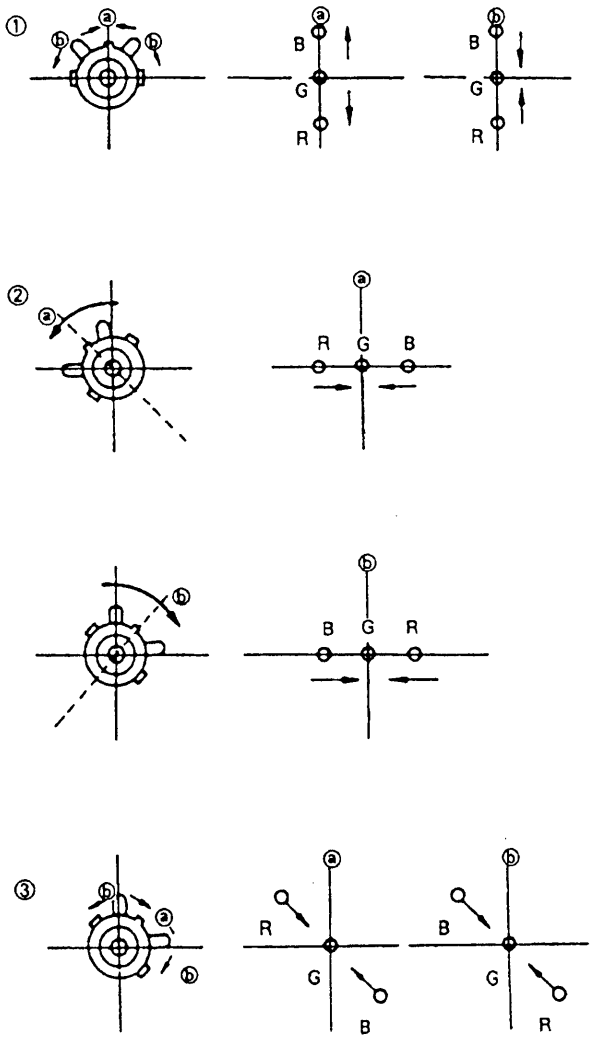


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

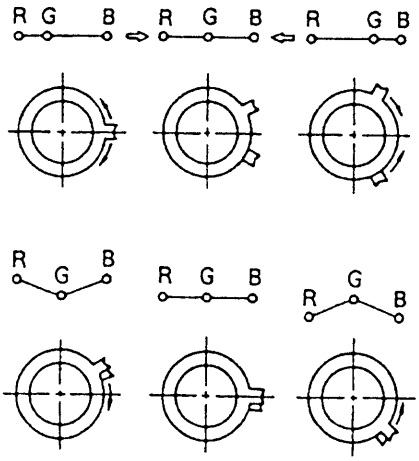
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

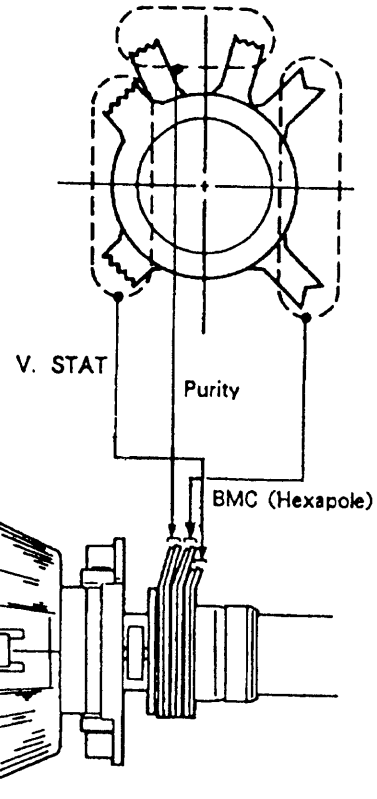


4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet



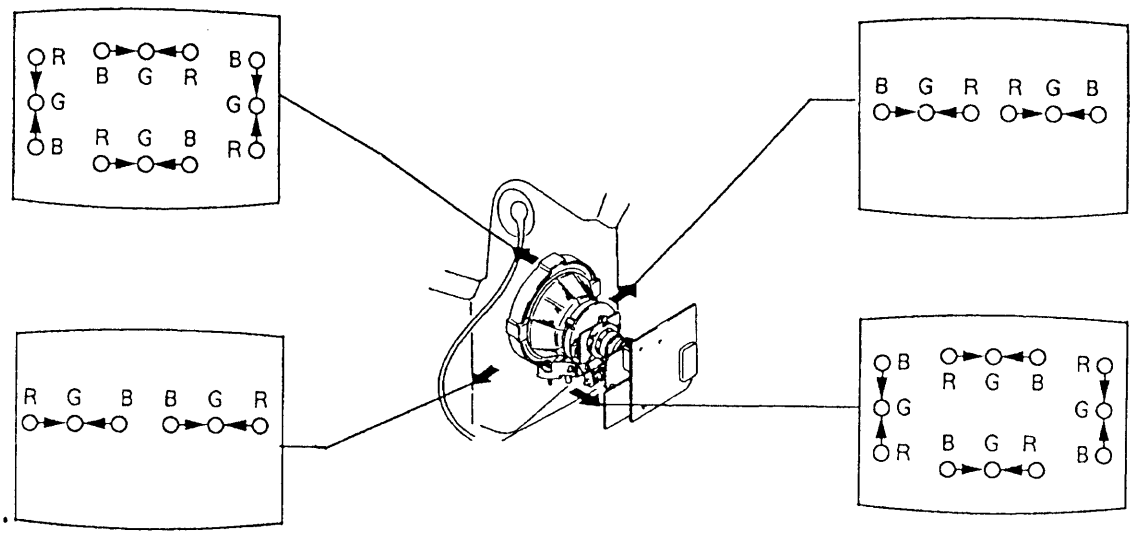


- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

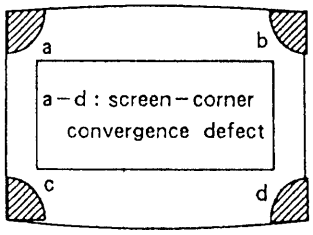
(2) Dynamic convergence adjustment
Preparations :

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

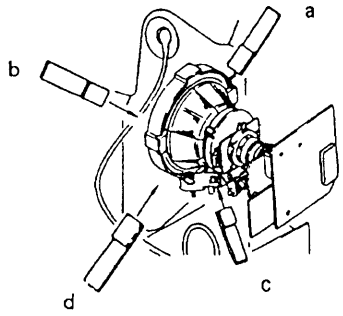
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the defelection yoke spacer.



(3) Screen corner convergence



Install the permalloy assembly for the section with faulty.



Permalloy

3-3. FOCUS

Adjust the focus to optimize the screen.

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
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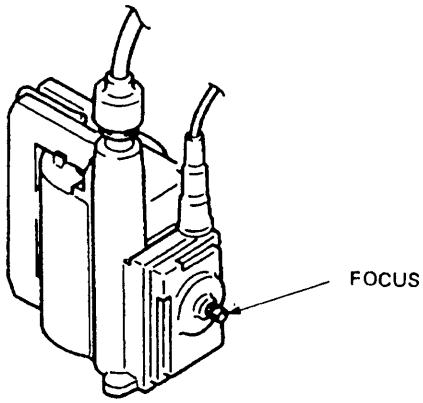


3-4. WHITE BALANCE

[Screen G2 setting]

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

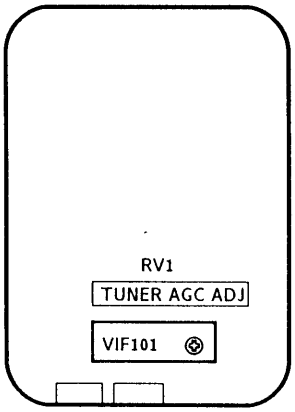
[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

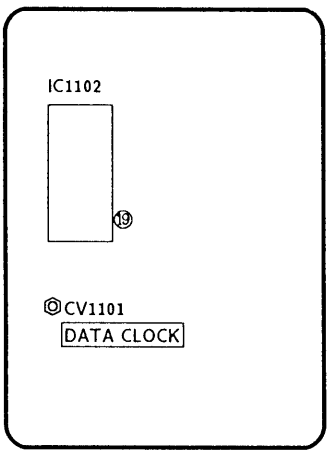


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

4-2. A1 BOARD ADJUSTMENT

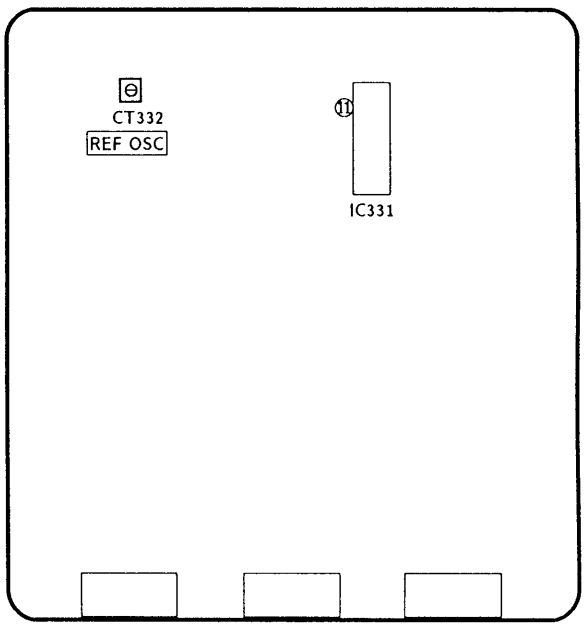


A1 BOARD (COMPONENT SIDE)

DATA CLOCK Adjustment (CV1101)

1. Tune in a no signal.
2. Connect a frequency counter to pin ⑲ of IC1102 (PCLK) through a probe of 10:1.
3. Adjust CV1101 (DATA CLOCK) so that frequency becomes 728.022KHz±1Hz.

4-3. B BOARD ADJUSTMENT

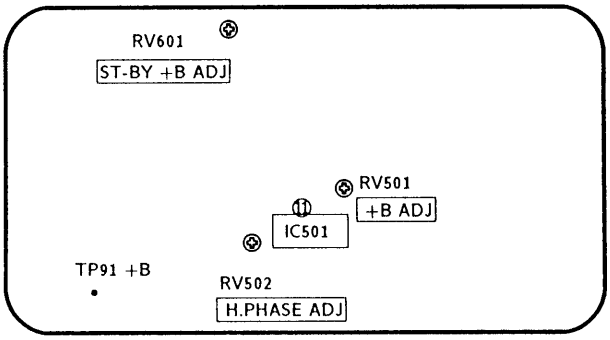


B BOARD (COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

1. Input a PAL colour bar signal.
2. Ground pin ⑪ of the IC331.
3. Adjust CT332 to obtain synchronization.

4-4. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

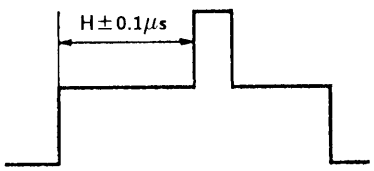
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain 135±0.2V.

ST-BY +B ADJUSTMENT (RV601)

1. Put the system into ⏻ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain 135±3V.
4. Take the system out of ⏻ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

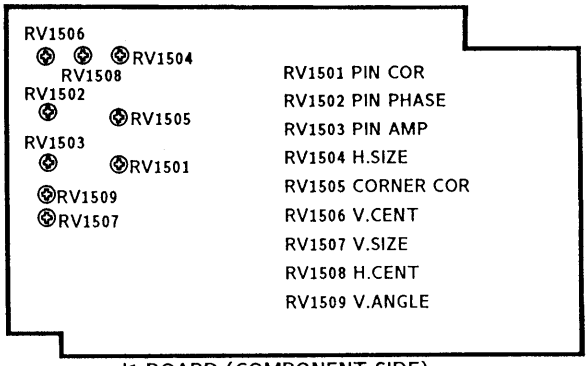
1. Input a PAL colour bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to H ±0.1μs.



Standard of H. PHASE

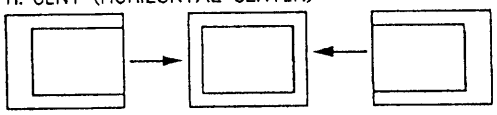
Model Size	H
25″	5.1μs
29″	5.5μs

4-5. J1 BOARD ADJUSTMENTS

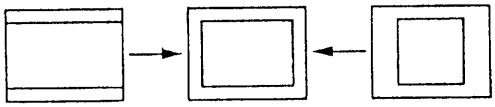


J1 BOARD (COMPONENT SIDE)

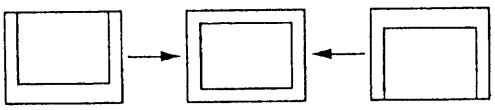
RV1508
H. CENT (HORIZONTAL CENTER)



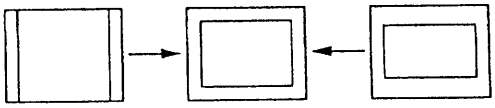
RV1504
H. SIZE (HORIZONTAL SIZE)



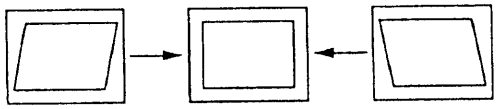
RV1506
V. CENT (VERTICAL CENTER)



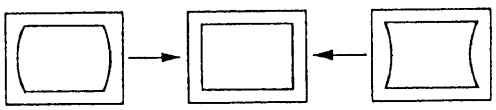
RV1507
V. SIZE (VERTICAL SIZE)



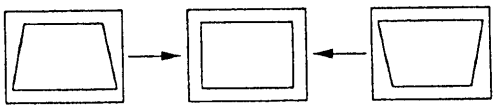
RV1509
V. ANGLE (VERTICAL ANGLE)



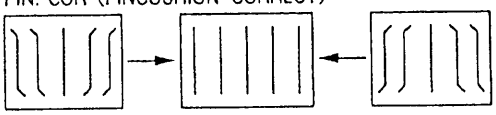
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



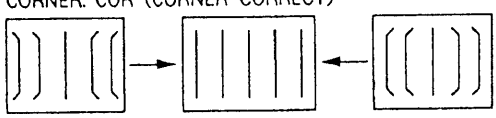
RV1502
PIN PHASE (PINCUSHION PHASE)



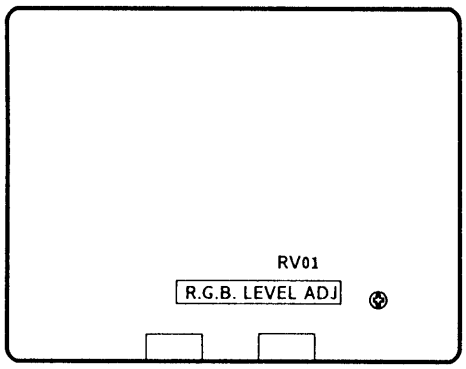
RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER. COR (CORNER CORRECT)



4-6. V BOARD ADJUSTMENT



V BOARD (COMPONENT SIDE)

RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-7. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

1. Set the system to receive a test pattern.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and − simultaneusly, turn on the power. (SUB mode is obtained)
5. Minimize the ◑ contrast setting.
6. Adjust the ☼ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the ◇ (store) button of the remote commander.
   (SUB mode is released)

If there is no test colour pattern

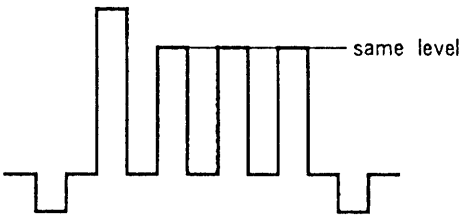
1. Set the system to receive a colour pattern.
2. Press → • ← on the remote commander to put the system into normal mode.
   Set the ◑ color to its normal state.

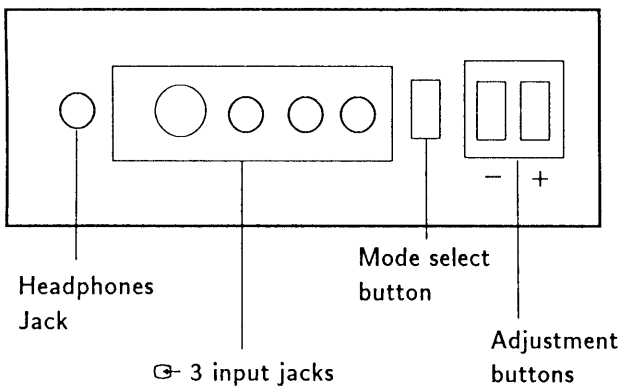
3-5. Steps are the same as above.

6. Since 20 IRE is nearly blue, adjust the ☼ brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press → • ← on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

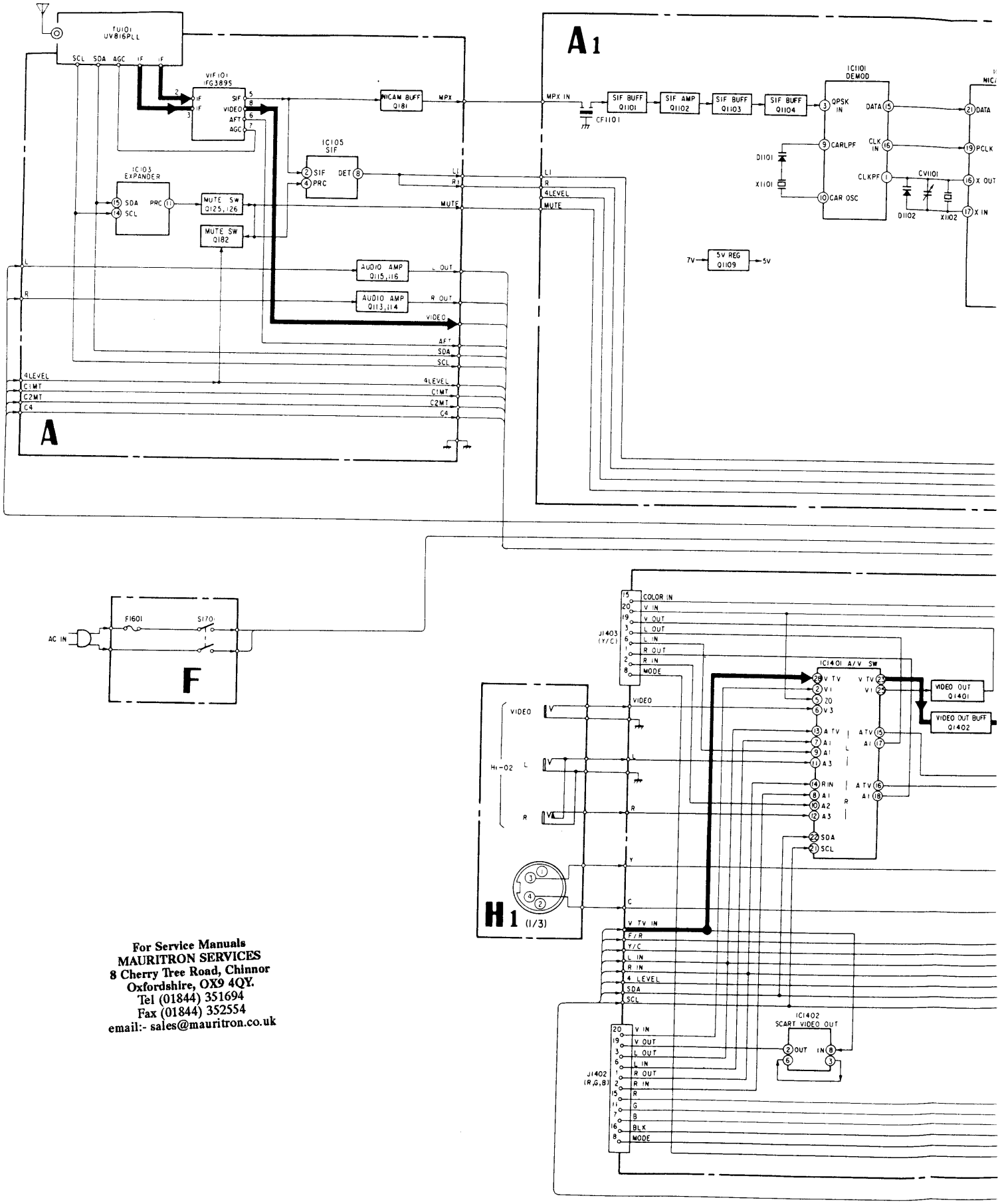
1. Set the system to receive color bars.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and − simultaneusly, turn on the power. (SUB mode is obtained).
5. Adjust the colour control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the ◇ (store) button of the remote commander. (SUB mode is released)





SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM



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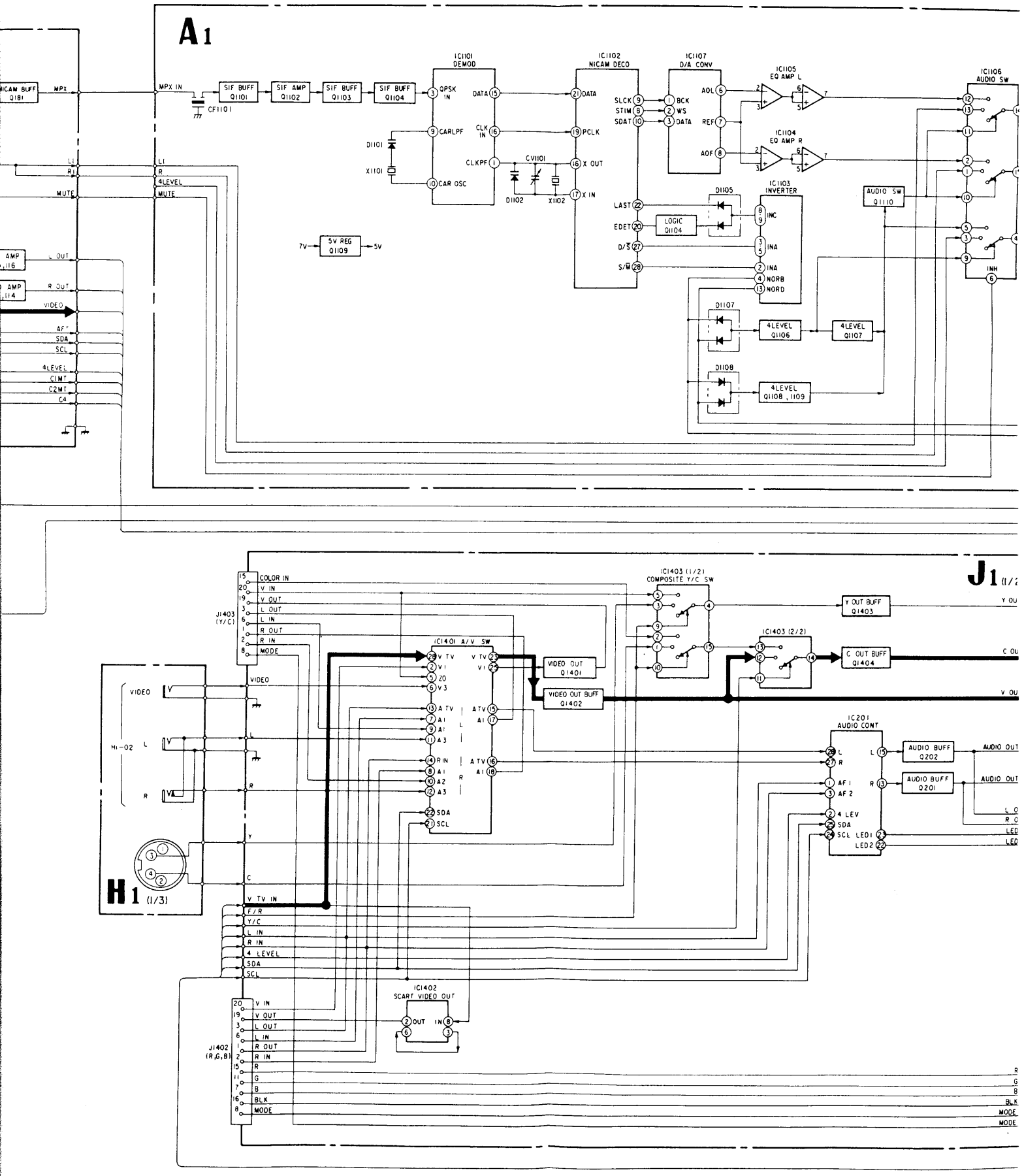
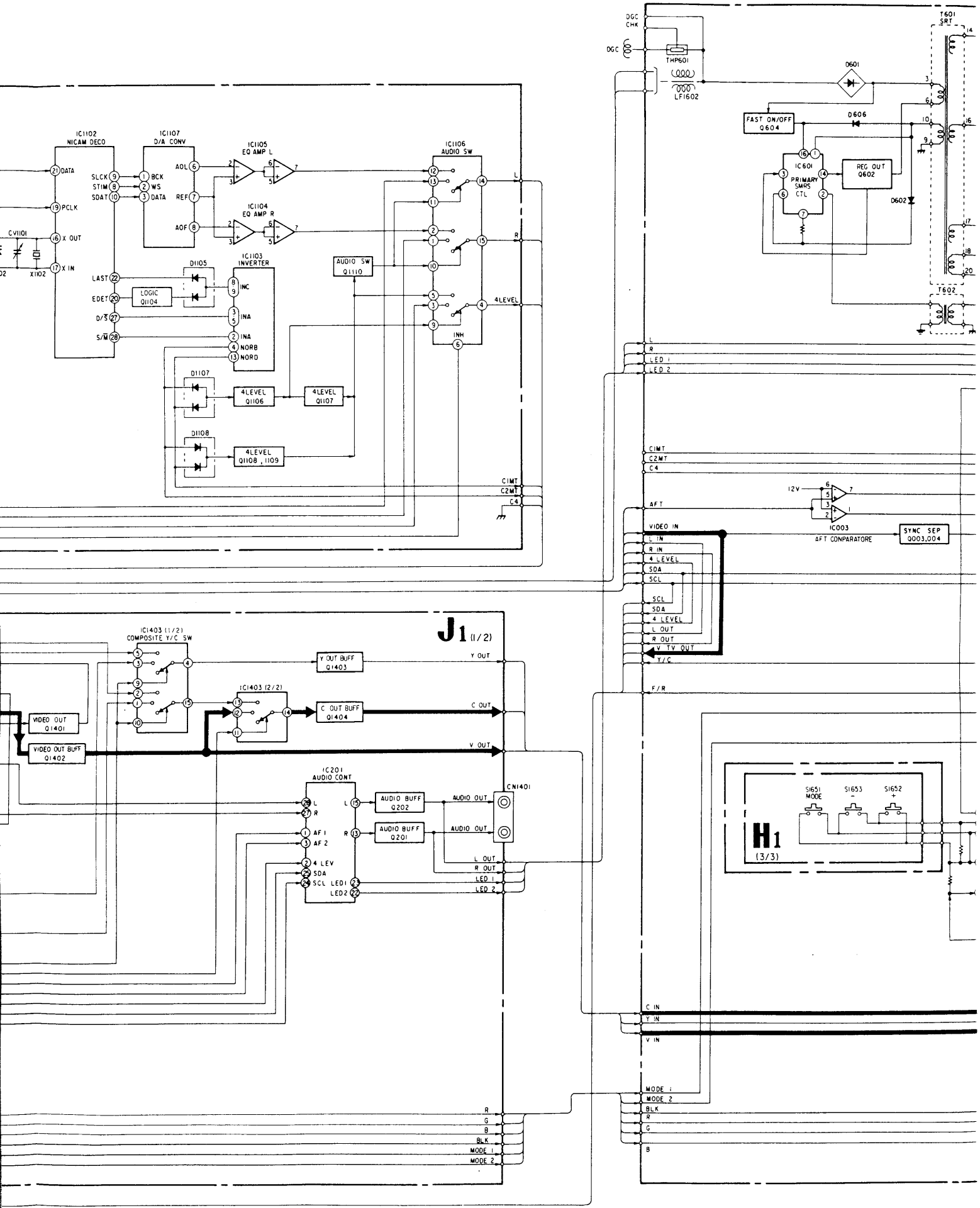
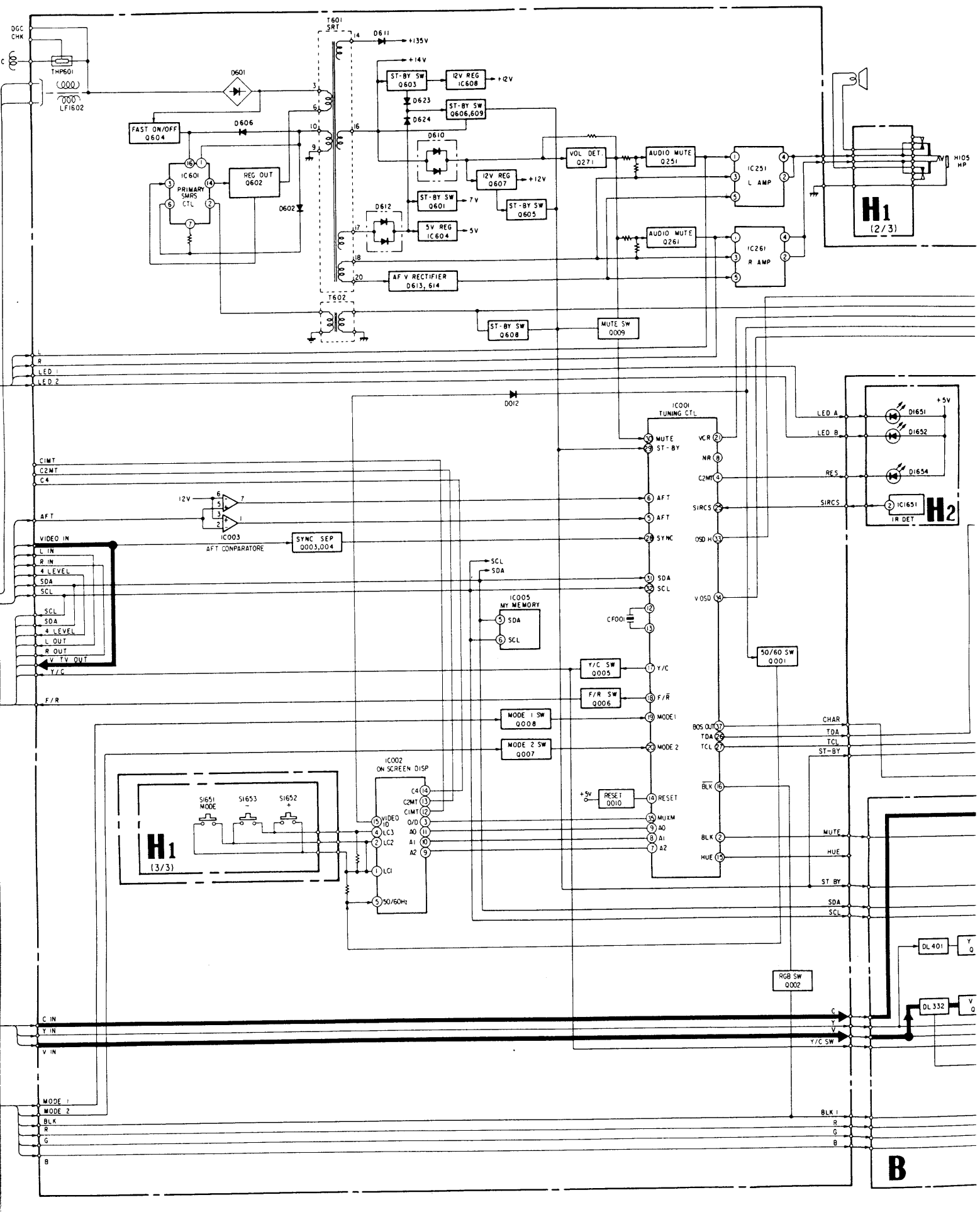
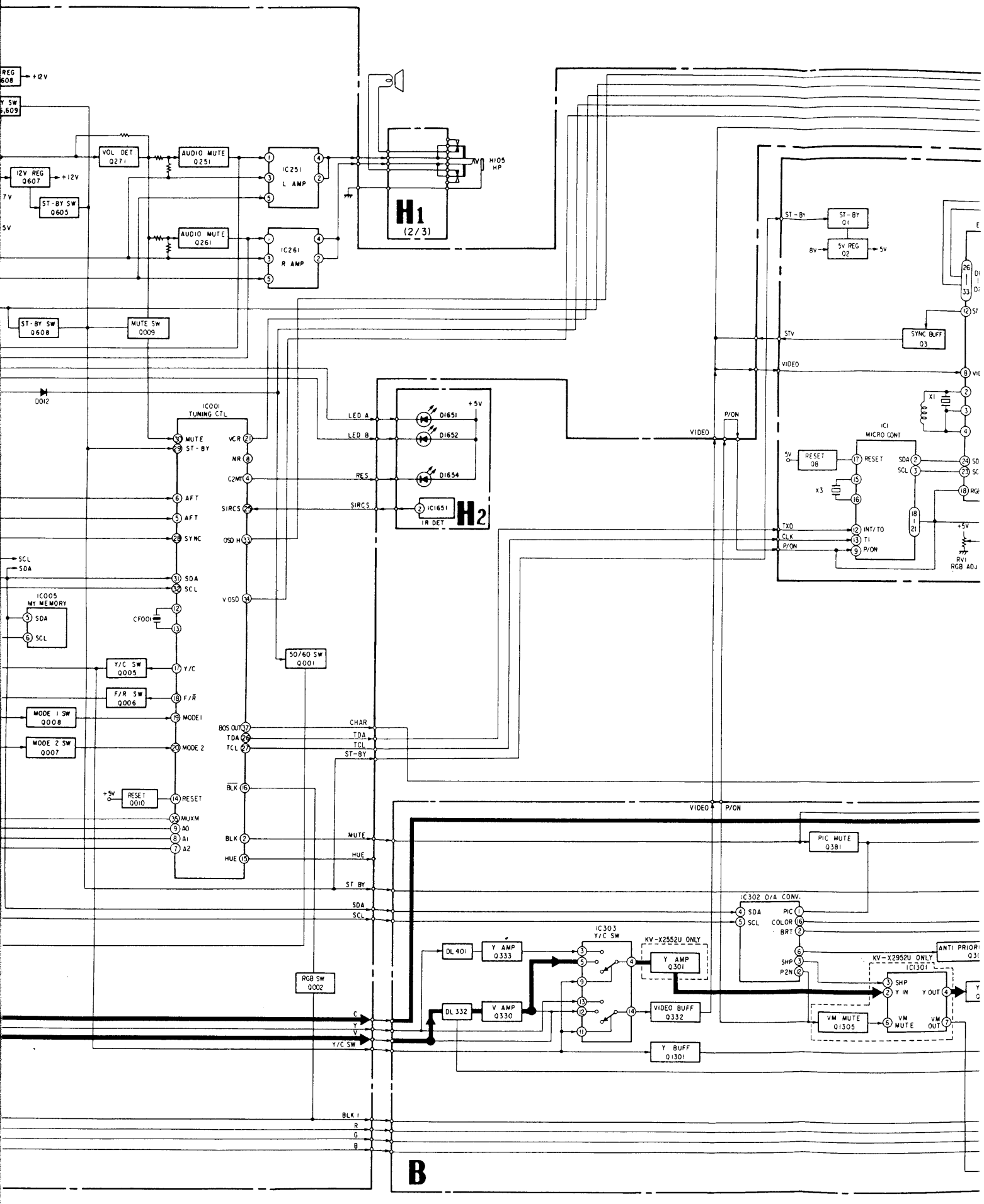
KV-X2552U/X2952U
RM-816

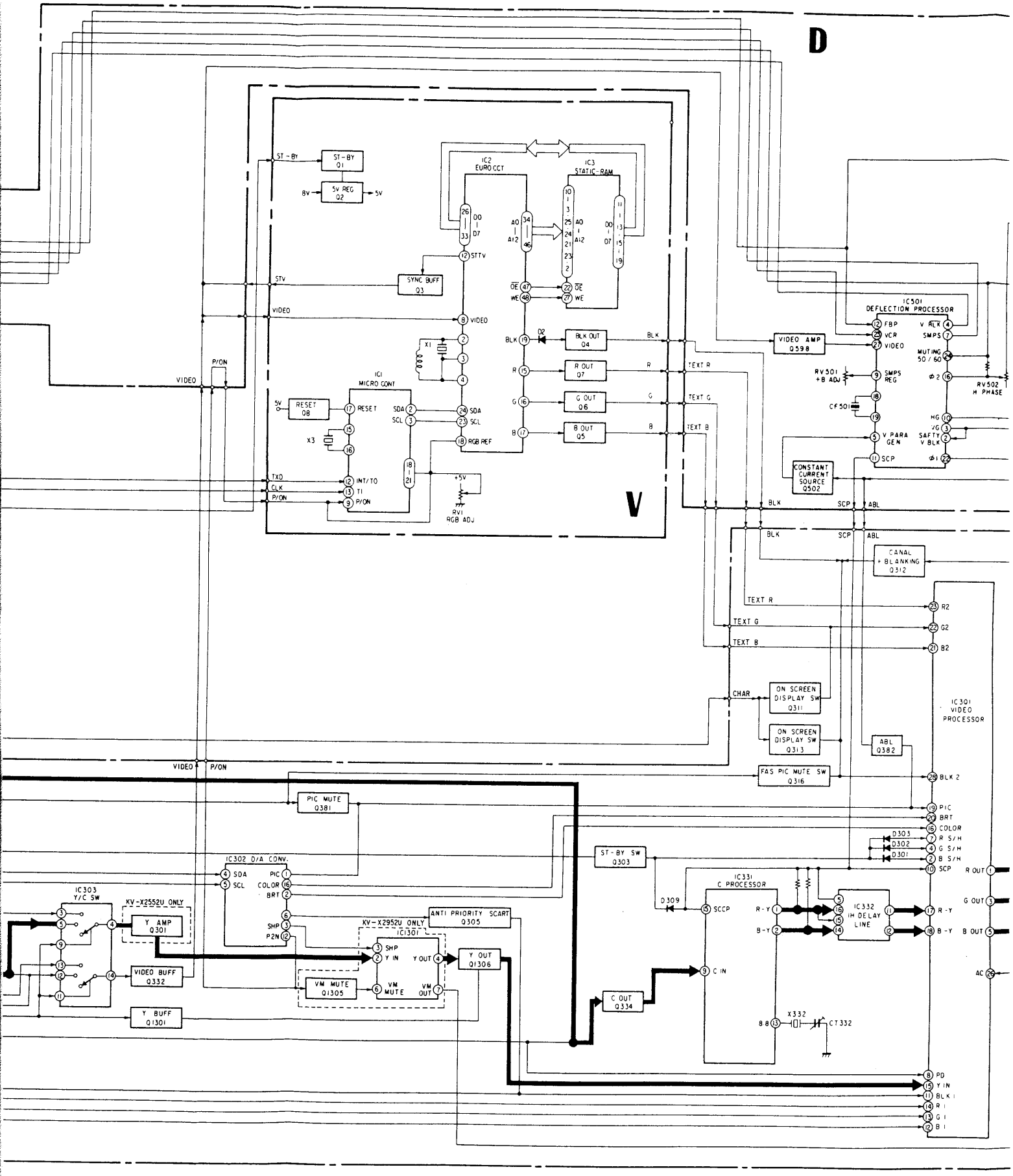


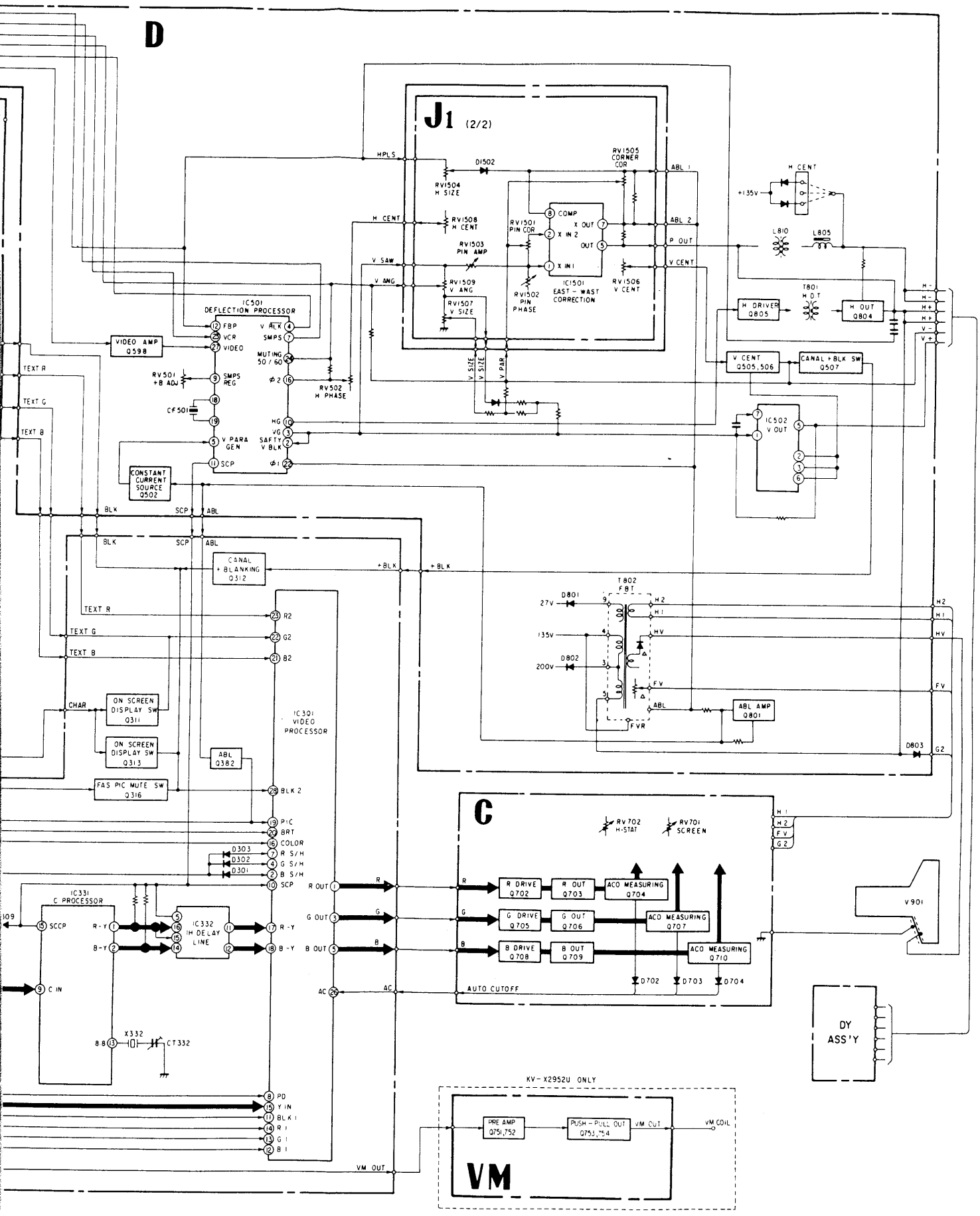

IC1102 NICAM DECO
IC1107 D/A CONV
IC1105 EQ AMP L
IC1104 EQ AMP R
IC1106 AUDIO SW
IC1103 INVERTER
DATA
PCLK
X OUT
X IN
SLCK
STIM
SDAT
BCK
WS
DATA
AOL
REF
AOF
LAST
EDET
D/S
S/M
LOGIC Q1104
D1105
INC
INA
INA
NORB
NORD
AUDIO SW Q1110
L
R
4LEVEL
INH
D1107
4LEVEL Q1106
4LEVEL Q1107
D1108
4LEVEL Q1108 , 1109
C1MT
C2MT
C4
DGC
DGC CHK
THP601
LF1602
D601
T601 SRT
FAST ON/OFF Q604
D606
IC601 PRIMARY SMPS CTL
REG OUT Q602
D602
T602
L
R
LED 1
LED 2
AFT
12V
IC003 AFT COMPARATORE
SYNC SEP Q003,004
VIDEO IN
L IN
R IN
4 LEVEL
SDA
SCL
SCL
SDA
4 LEVEL
L OUT
R OUT
V TV OUT
Y/C
F/R
J1 (1/2)
IC1403 (1/2) COMPOSITE Y/C SW
IC1403 (2/2)
Y OUT BUFF Q1403
C OUT BUFF Q1404
VIDEO OUT Q1401
VIDEO OUT BUFF Q1402
Y OUT
C OUT
V OUT
IC201 AUDIO CONT
AUDIO BUFF Q202
AUDIO BUFF Q201
AUDIO OUT
AUDIO OUT
CN1401
L
R
AF 1
AF 2
4 LEV
SDA
SCL LED1
LED2
L OUT
R OUT
LED 1
LED 2
S1651 MODE
S1653 -
S1652 +
H1 (3/3)
C IN
Y IN
V IN
MODE 1
MODE 2
BLK
R
G
B
R
G
B
BLK
MODE 1
MODE 2


T601
SRT
D611
+135V
+14V
ST-BY SW Q603
12V REG IC608
+12V
D623
D624
ST-BY SW Q606,609
D610
FAST ON/OFF Q604
D606
IC601
PRIMARY SMPS CTL
REG. OUT Q602
D602
12V REG Q607
+12V
ST-BY SW Q601
7V
ST-BY SW Q605
D612
5V REG IC604
5V
T602
AF V RECTIFIER D613, 614
VOL DET. Q271
AUDIO MUTE Q251
IC251 L AMP
AUDIO MUTE Q261
IC261 R AMP
H1 (2/3)
HIOS HP
ST-BY SW Q608
MUTE SW Q009
D012
IC001 TUNING CTL
MUTE
ST-BY
AFT
SYNC
SDA
SCL
VCR
NR
C2MT
SIRCS
OSD H
V OSD
LED A
LED B
RES
SIRCS
D1651
D1652
D1654
IC1651 IR DET
H2
+5V
IC003 AFT COMPARATORE
SYNC SEP Q003,004
IC005 MY MEMORY
CF001
Y/C SW Q005
F/R SW Q006
MODE 1 SW Q008
MODE 2 SW Q007
50/60 SW Q001
IC002 ON SCREEN DISP
S1651 MODE
S1653 -
S1652 +
H1 (3/3)
VIDEO ID
LC3
LC2
LC1
50/60Hz
C4
C2MT
C1MT
O/D
A0
A1
A2
RESET Q010
MUXM
BOS OUT
TDA
TCL
BLK
HUE
CHAR
ST-BY
MUTE
RGB SW Q002
DL 401
DL 332
VIDEO IN
L IN
R IN
4 LEVEL
SDA
SCL
L OUT
R OUT
TV OUT
Y/C
F/R
C IN
Y IN
V IN
MODE 1
MODE 2
BLK
R
G
B
Y/C SW
BLK 1
B

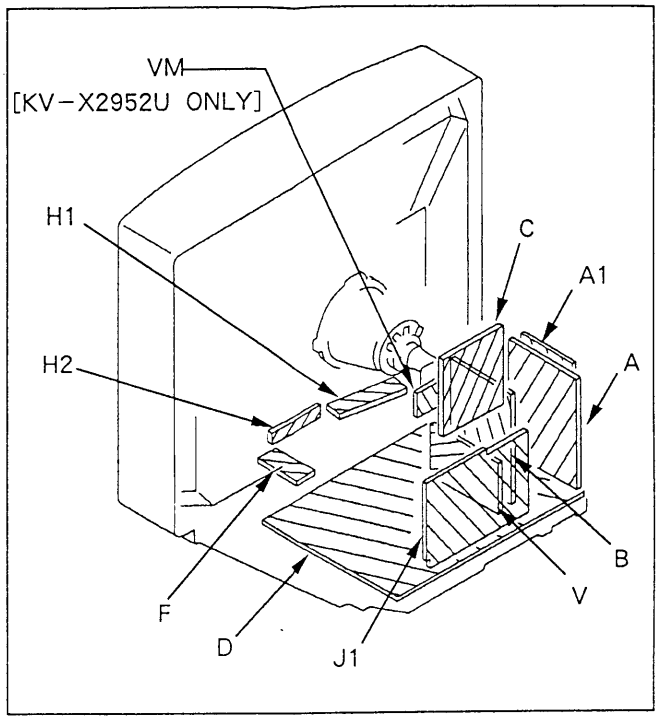

+12V
VOL DET Q271
AUDIO MUTE Q251
IC251 L AMP
AUDIO MUTE Q261
IC261 R AMP
12V REG Q607
ST-BY SW Q605
ST-BY SW Q608
MUTE SW Q009
H105 HP
H1 (2/3)
D012
IC001 TUNING CTL
MUTE
ST-BY
AFT
AFT
SYNC
SCL
SDA
SDA
SCL
VCR
NR
C2MIT
SIRCS
OSD H
V OSD
LED A
LED B
RES
SIRCS
D1651
D1652
D1654
IC1651 IR DET
H2
+5V
IC005 MY MEMORY
SDA
SCL
CF001
Y/C SW Q005
F/R SW Q006
MODE 1 SW Q008
MODE 2 SW Q007
Y/C
F/R
MODE1
MODE 2
50/60 SW Q001
BOS OUT
TDA
TCL
ST-BY
CHAR
TDA
TCL
ST-BY
BLK
+5V
RESET Q010
RESET
MUXM
A0
A1
A2
BLK
HUE
MUTE
HUE
ST BY
SDA
SCL
RGB SW Q002
C
Y
V
Y/C SW
BLK I
R
G
B
B
ST-BY
ST-BY Q1
8V
5V REG Q2
5V
STV
SYNC BUFF Q3
VIDEO
P/ON
IC1 MICRO CONT
5V
RESET Q8
RESET
SDA
SCL
X1
X3
TXD
CLK
P/ON
INT/TO
TI
P/ON
RV1 RGB ADJ
PIC MUTE Q381
IC302 D/A CONV.
SDA
SCL
PIC
COLOR
BRT
SHP
P2N
IC303 Y/C SW
DL 401
Y AMP Q333
DL 332
V AMP Q330
KV-X2552U ONLY
Y AMP Q301
VIDEO BUFF Q332
Y BUFF Q1301
KV-X2952U ONLY
IC1301
SHP
Y IN
Y OUT
VM MUTE Q1305
VM MUTE
VM OUT

KV-X2552U/X2952U
RM-816




D
J1 (2/2)
HPLS
D1502
RV1504 H SIZE
RV1505 CORNER COR
ABL 1
H CENT
RV1508 H CENT
RV1501 PIN COR
ABL 2
P OUT
V CENT
RV1503 PIN AMP
V SAW
V ANG
RV1509 V ANG
RV1507 V SIZE
RV1502 PIN PHASE
IC1501 EAST-WAST CORRECTION
RV1506 V CENT
IC501 DEFLECTION PROCESSOR
FBP
VCR
VIDEO
V BLK
SMPS
MUTING 50/60
SMPS REG
RV501 +B ADJ
RV502 H PHASE
CF501
V PARA GEN
SAFTY V BLK
SCP
CONSTANT CURRENT SOURCE Q502
VIDEO AMP Q598
TEXT R
TEXT G
TEXT B
BLK
ABL
CANAL + BLANKING Q312
+BLK
CHAR
ON SCREEN DISPLAY SW Q311
ON SCREEN DISPLAY SW Q313
ABL Q382
IC301 VIDEO PROCESSOR
FAS PIC MUTE SW Q316
BLK 2
PIC
BRT
COLOR
R S/H
G S/H
B S/H
D303
D302
D301
IC331 C PROCESSOR
SCCP
C IN
R-Y
B-Y
IC332 1H DELAY LINE
X332
CT332
R OUT
G OUT
B OUT
AC
PD
Y IN
BLK I
R I
G I
B I
VM OUT
H DRIVER Q805
H OUT Q804
T801 H.D.T
L810
L805
+135V
V CENT Q505,506
CANAL +BLK SW Q507
IC502 V OUT
T802 FBT
D801
D802
27V
135V
200V
H2
H1
HV
FV
FVR
ABL
ABL AMP Q801
D803
G2
C
RV702 H-STAT
RV701 SCREEN
R DRIVE Q702
R OUT Q703
ACO MEASURING Q704
G DRIVE Q705
G OUT Q706
ACO MEASURING Q707
B DRIVE Q708
B OUT Q709
ACO MEASURING Q710
AUTO CUTOFF
D702
D703
D704
V901
DY ASS'Y
KV-X2952U ONLY
PRE AMP Q751,752
PUSH-PULL OUT Q753,754
VM OUT
VM COIL
VM

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note :

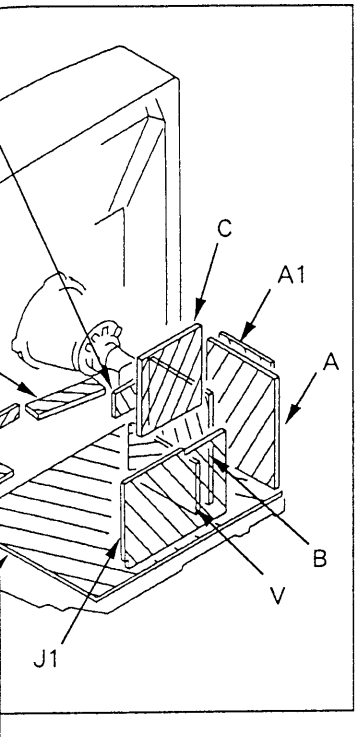
- All capacitors are in μF unless otherwise noted.
  pF : μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms. kΩ = 1000Ω, MΩ = 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B.unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + line.
- : signal path. (RF)

KV-X2552U/X2952U
RM-816

LOCATION



Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✱	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

AMS AND PRINTED WIRING BOARDS

dentified by shading and mark
safety. Replace only with
fied.

unless otherwise noted.
are not indicated except for

which does not have one for
as follows.

/4W

W.
kΩ = 1000Ω, MΩ = 1000k Ω
sistor.
r.

and adjustment for repair.
le resistors have characteristic
noted.

10MΩ digital multimeter.
color-bar signal input.
noted due to normal production

A

—A Bc

—F Bc

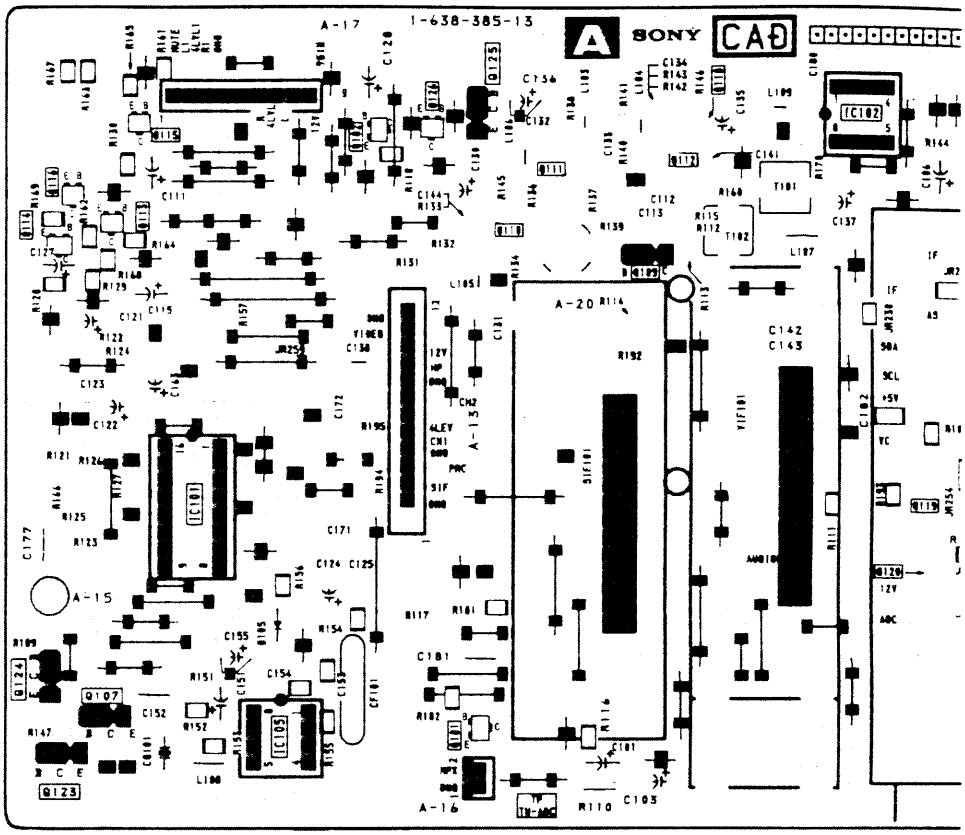
1-638-390-11

BON
IBLE
TAL OXIDE
IENT
EWOUND
OR

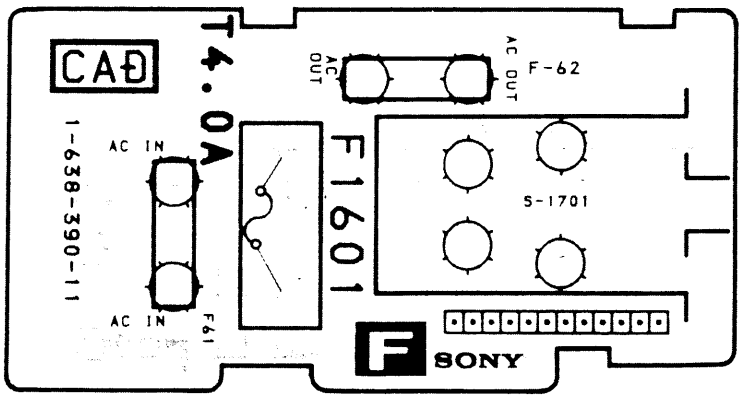
ER
PYLENE

A [TUNER, SIF VIF] **F** [AC IN POWER SW] **J1** [AUDIO CONTROL, A/\ Y/C INPUT SCART V EAST-WEST CORRECTI(

—A Board—

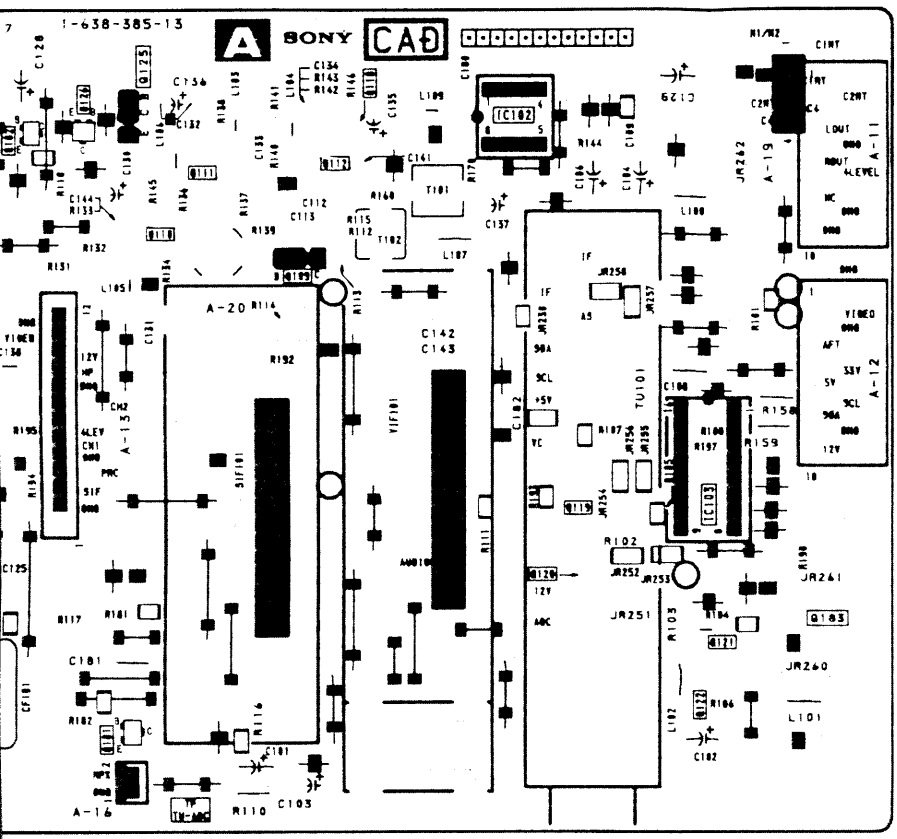


—F Board—



[AC IN POWER SW] **J1** [AUDIO CONTROL, A/V INPUT, Y/C INPUT SCART VIDEO OUT EAST-WEST CORRECTION] **H1** [CONTROL SW, A/V INPUT, HEADPHONE] **H2** [SIRCS RECEIVER, INDICATOR] **VI**

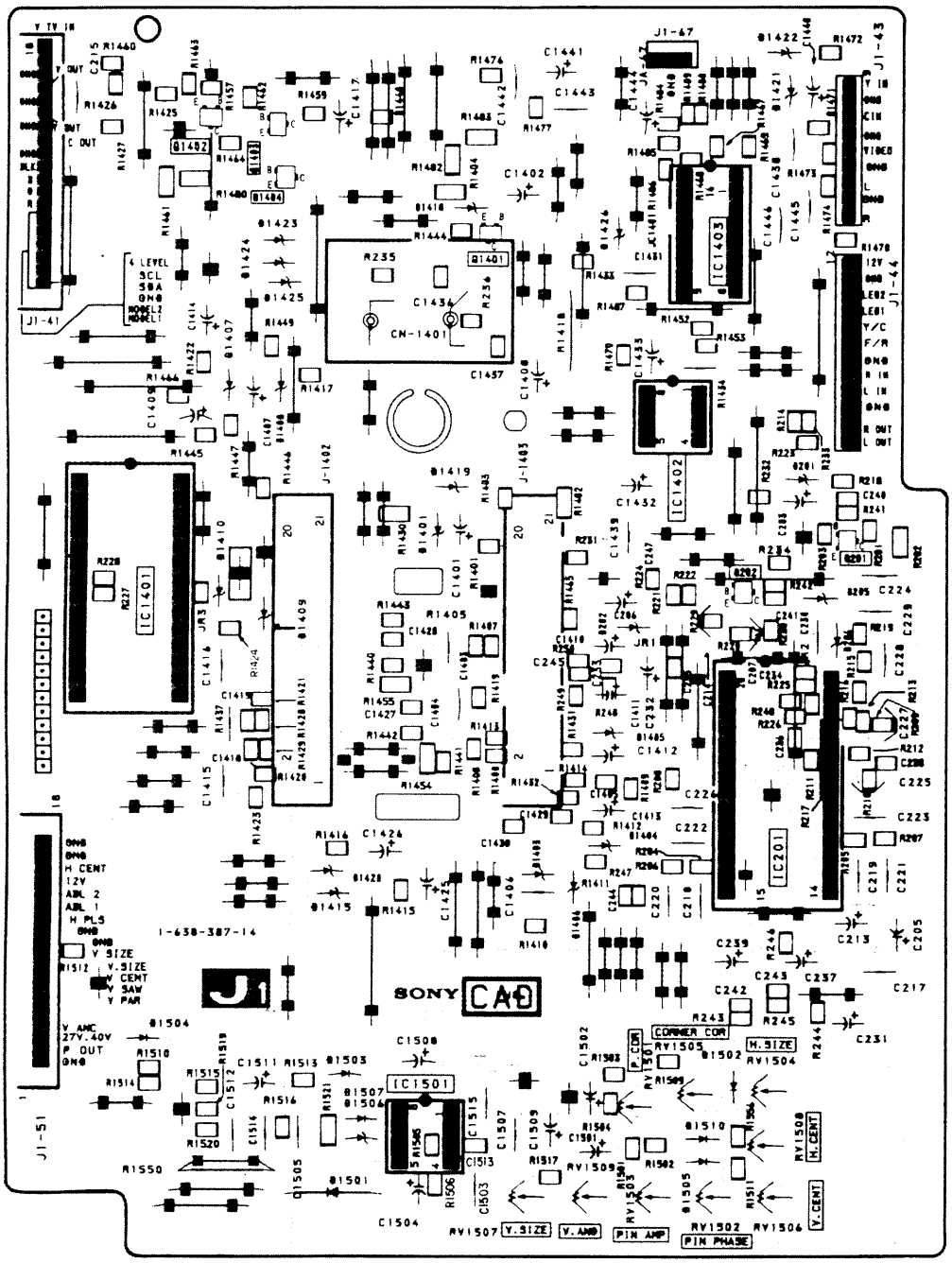
—J1 Board—



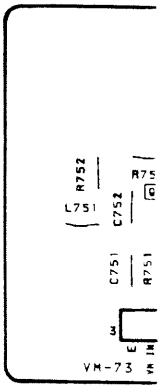
KV-X2552U/X2952U
RM-816

H2 [SIRCS RECEIVER, INDICATOR] **VM** [VM AMP]

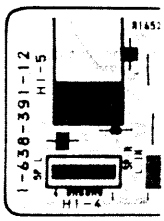
—J1 Board—



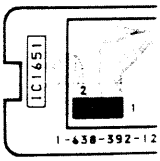
—VM Board—



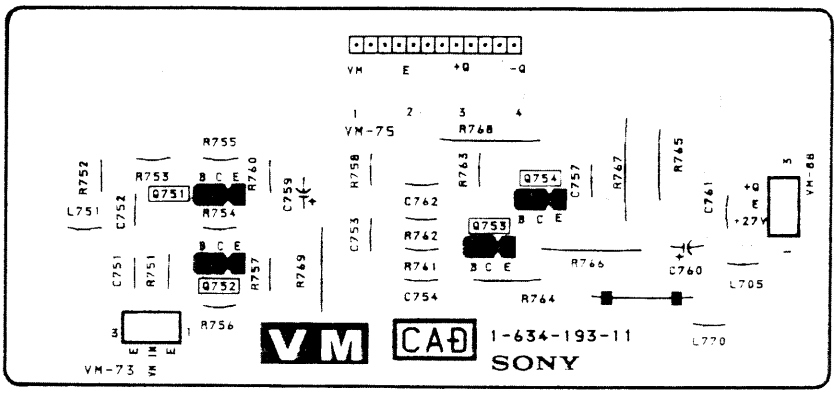
—H1 Board—



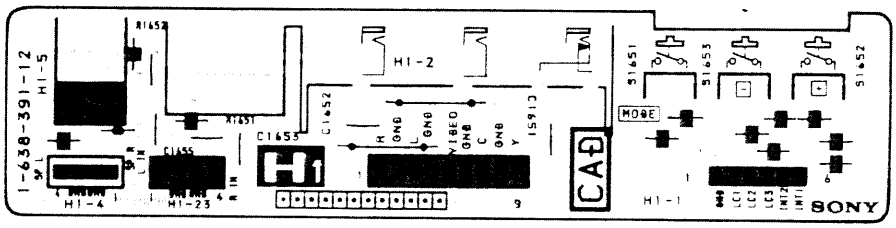
—H2 Board—



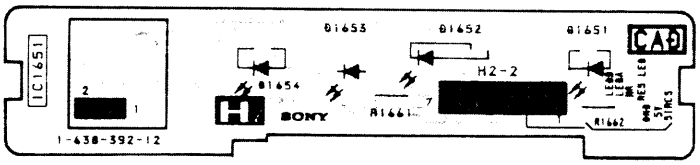
—VM Board— (29 INCH ONLY)

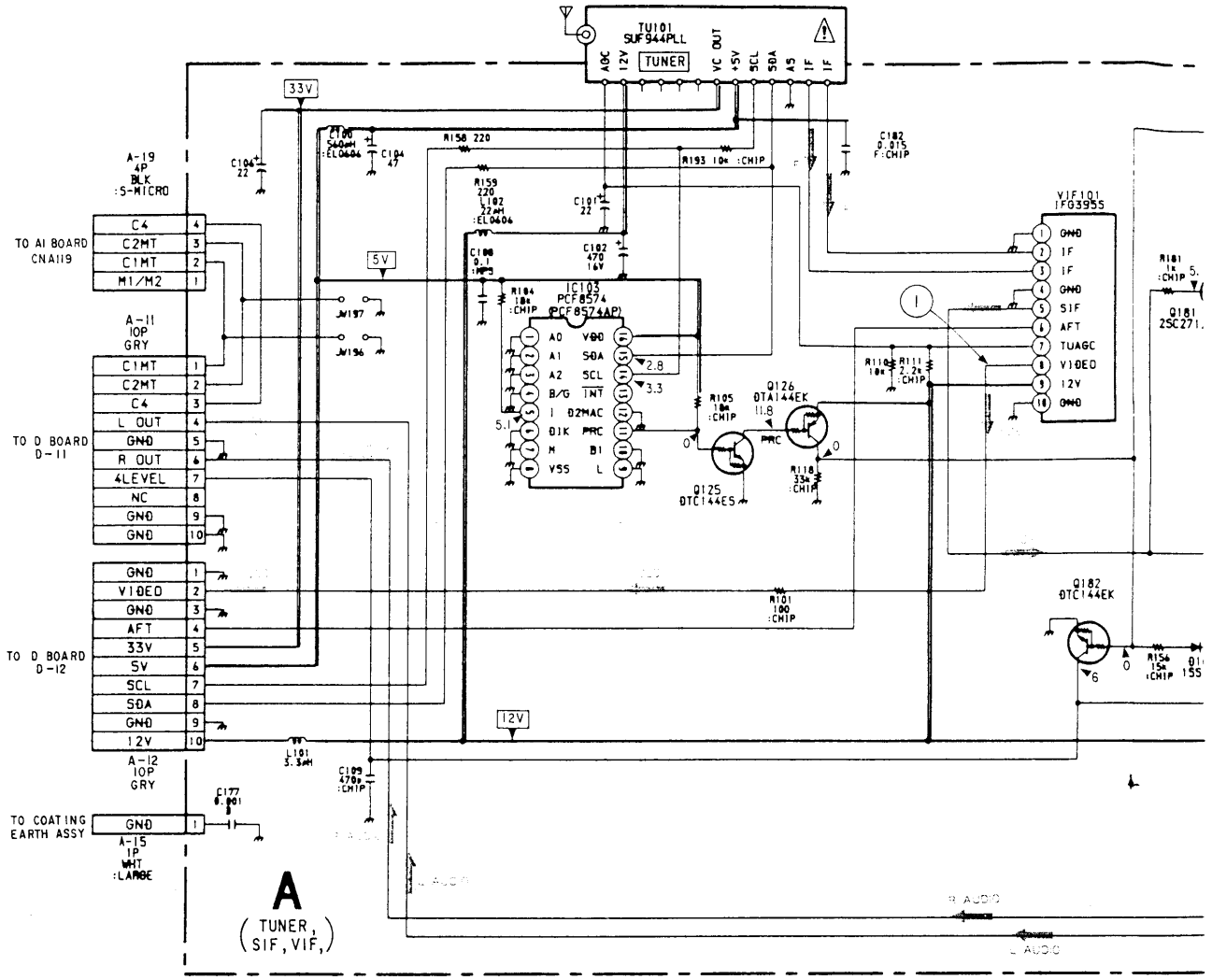


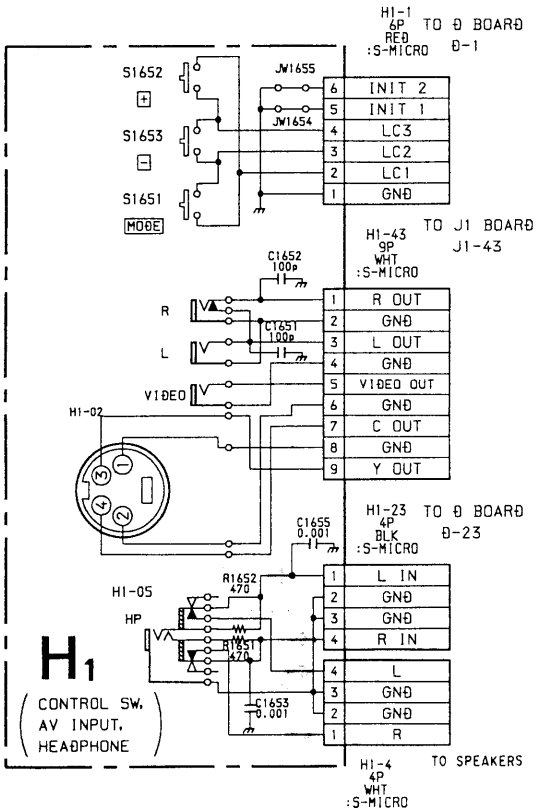
—H1 Board—



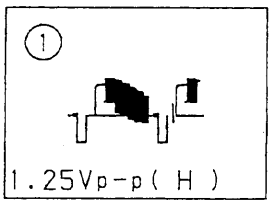
—H2 Board—



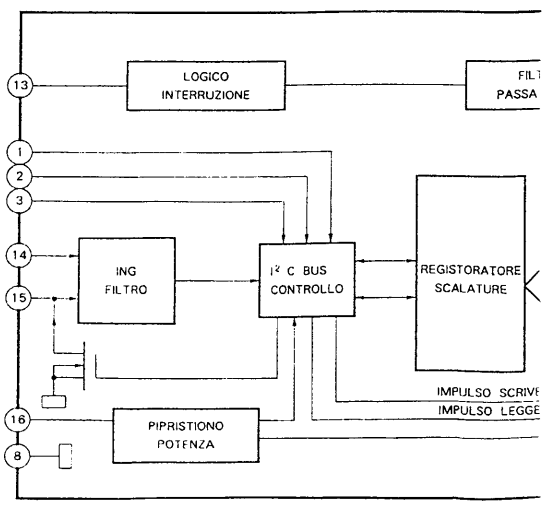


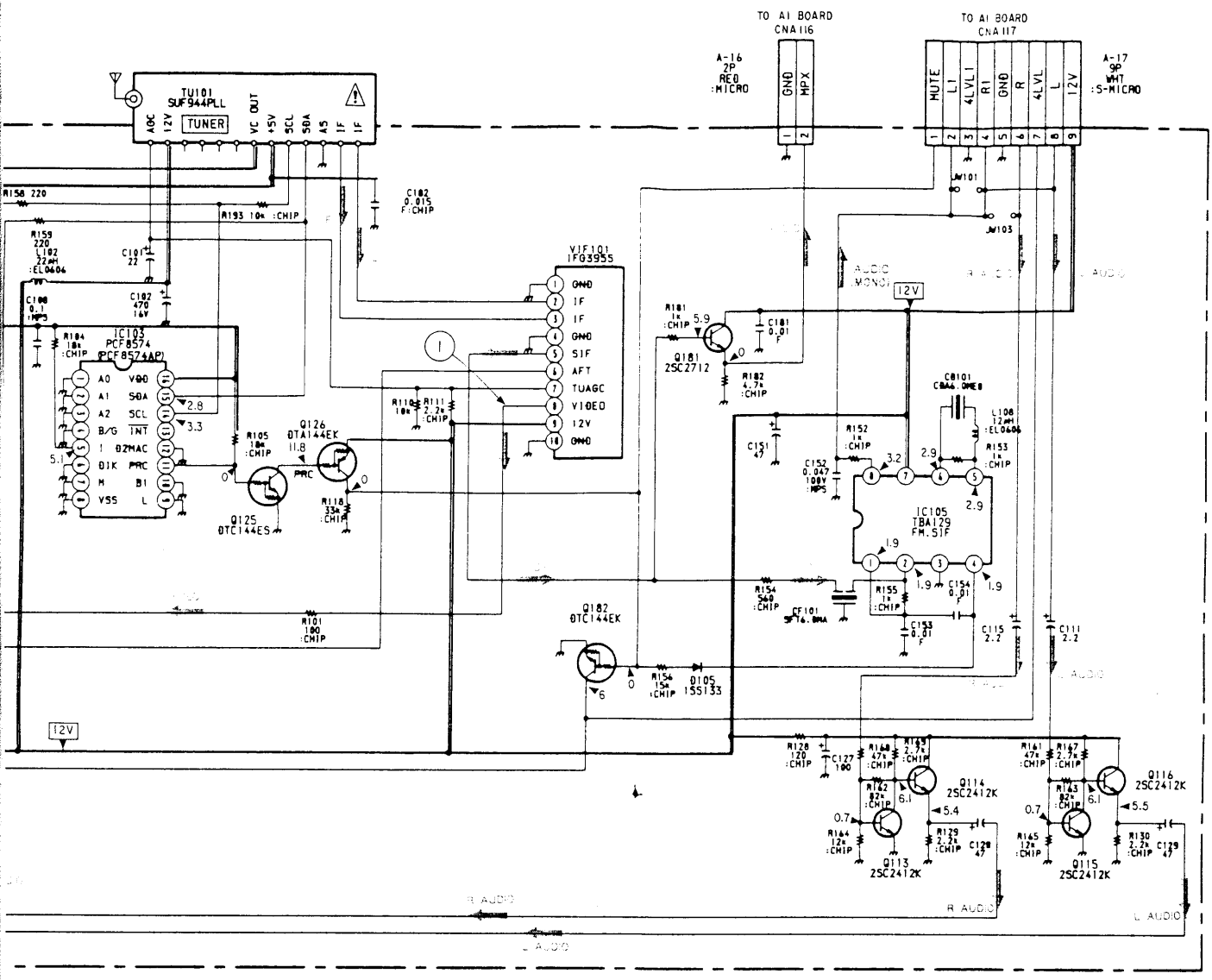


· WAVEFORMS A BOARD

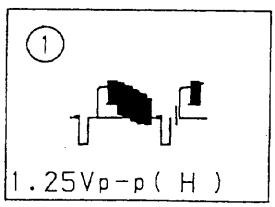


A BOARD IC103 PCF8574





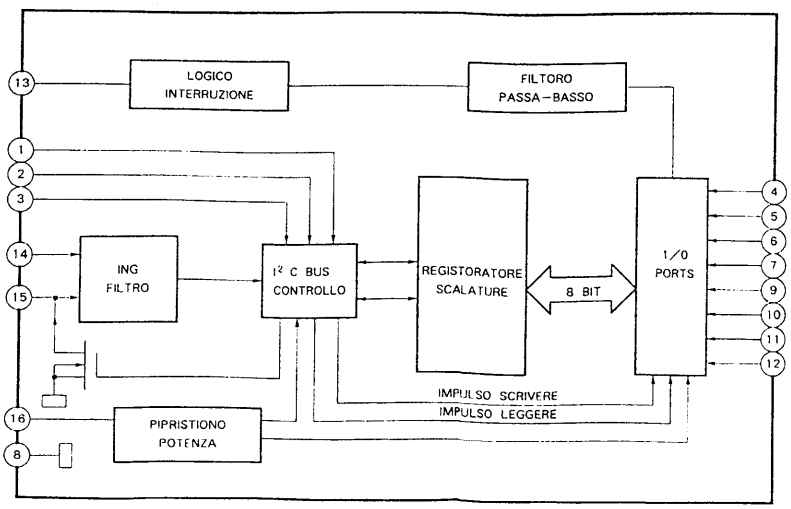
• WAVEFORMS A BOARD



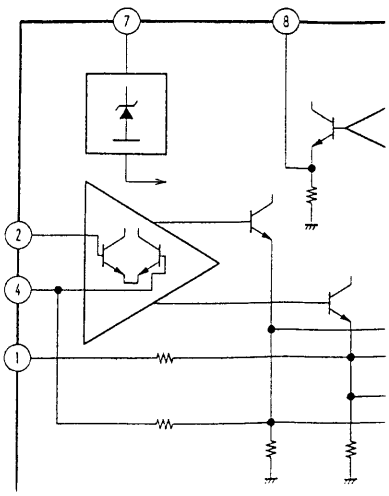
• A BOARD

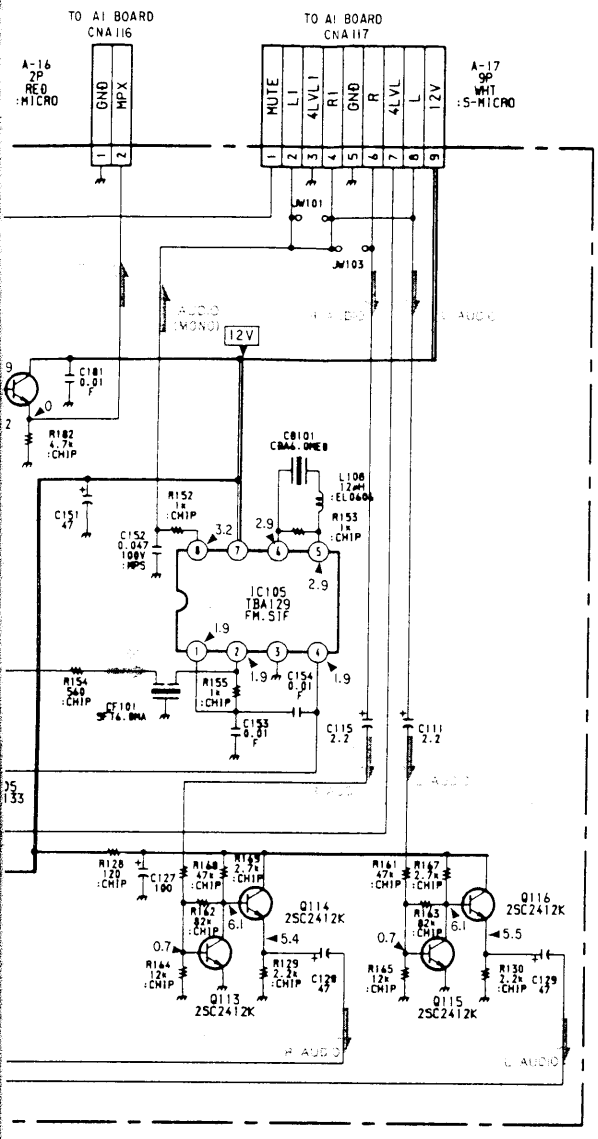
IC103	PCF8574	EXP
IC105	TBA129	FM
Q113	2SC2412K	AUI
Q114	2SC2412K	AUI
Q115	2SC2412K	AUI
Q116	2SC2412K	AUI
Q125	DTC144ES	MU
Q126	DTA144EK	MU
Q181	2SC2412K	NIC
Q182	DTC144EK	4 L

A BOARD IC103 PCF8574



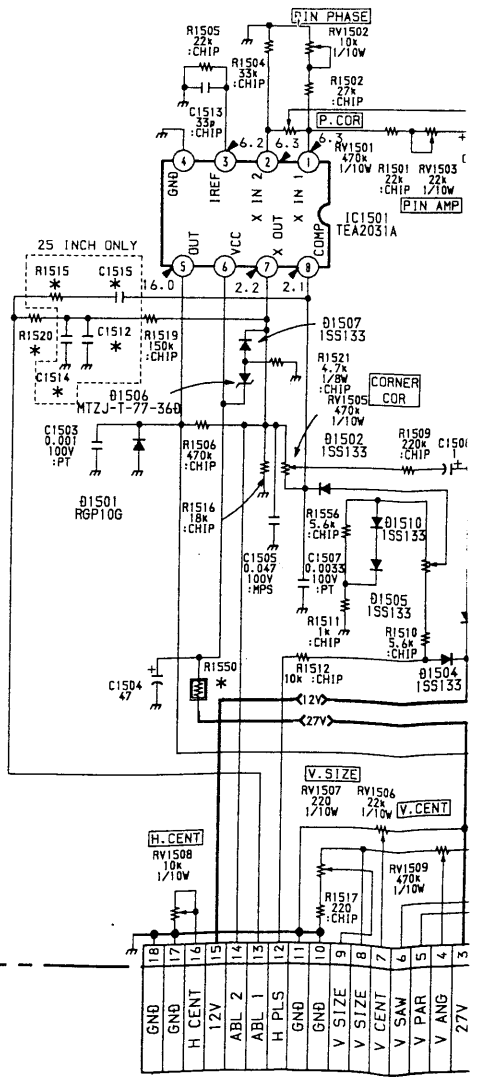
A BOARD IC105 TBA129





J1

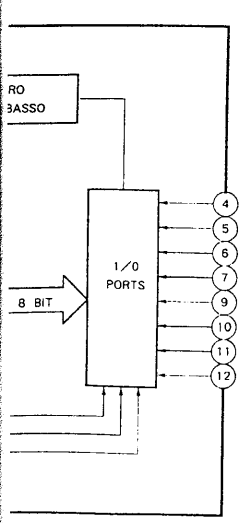
(AUDIO CONTROL.
AV INPUT. Y/C INPUT.
SCART VIDEO OUT.
EAST-WEST CORRECTION)

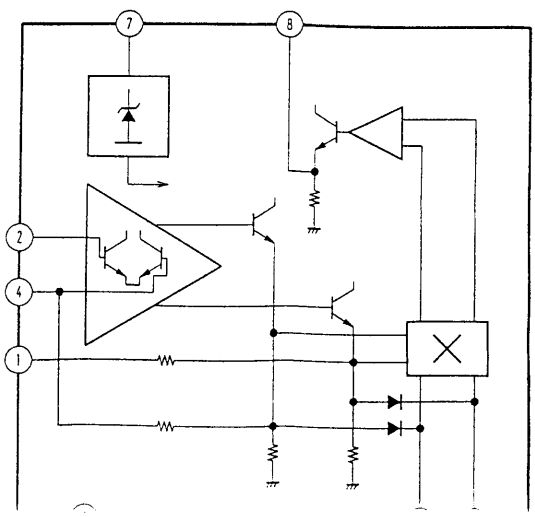


• A BOARD

IC103	PCF8574	EXPANDER
IC105	TBA129	FM • SIF
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER
Q182	DTC144EK	4 LEVEL SW

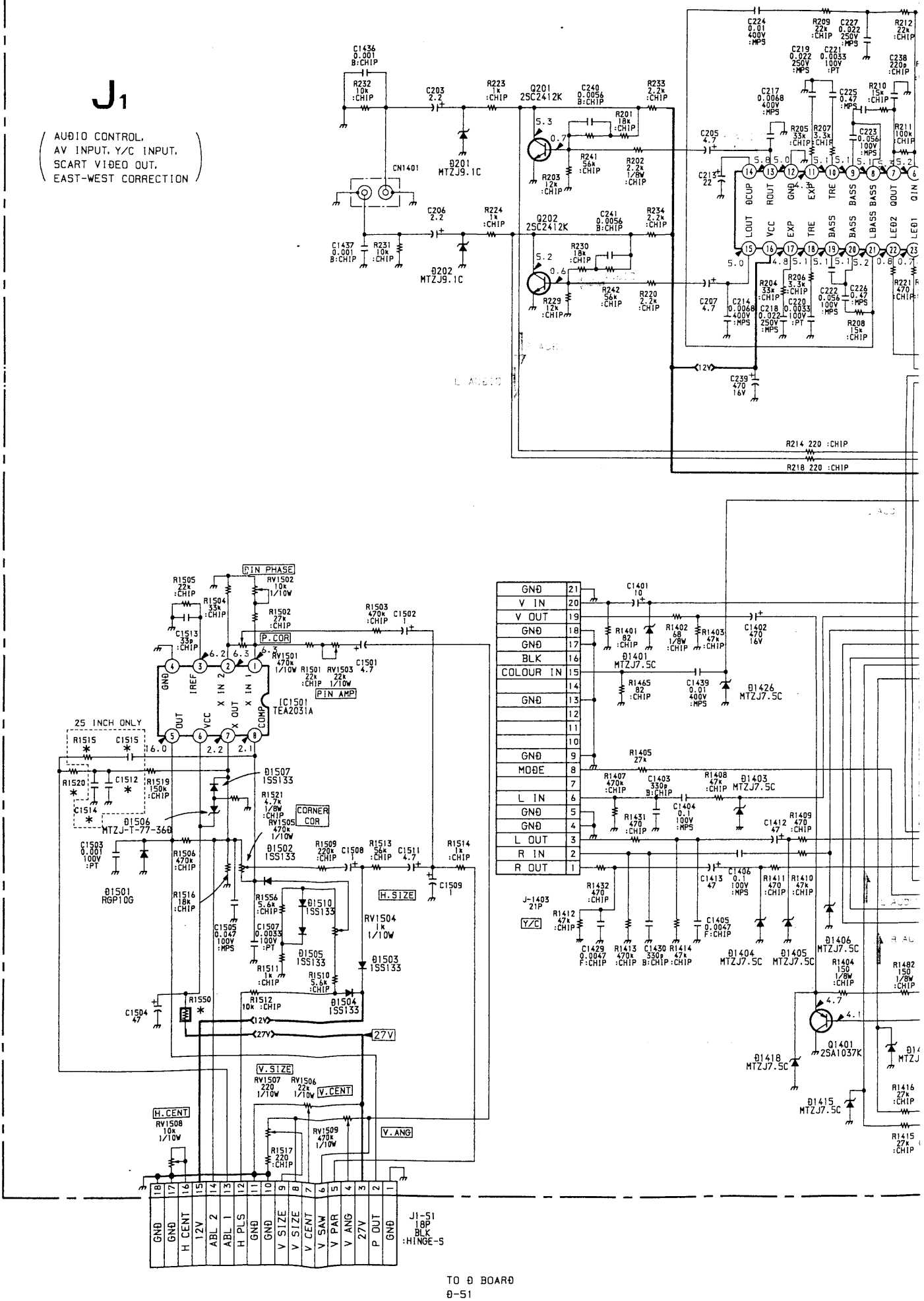
A BOARD IC105 TBA129

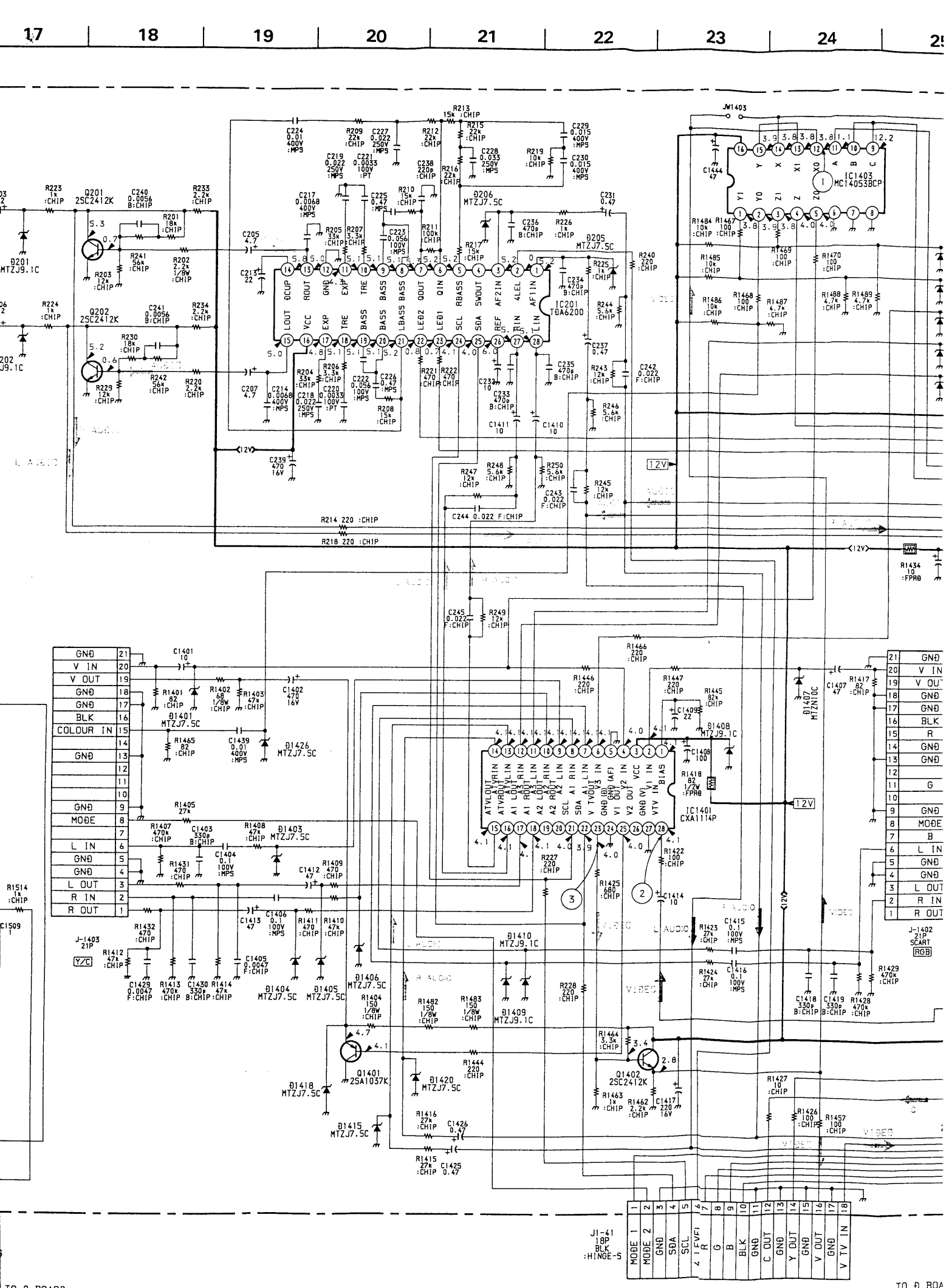




J1

(AUDIO CONTROL,
AV INPUT, Y/C INPUT,
SCART VIDEO OUT,
EAST-WEST CORRECTION)




17
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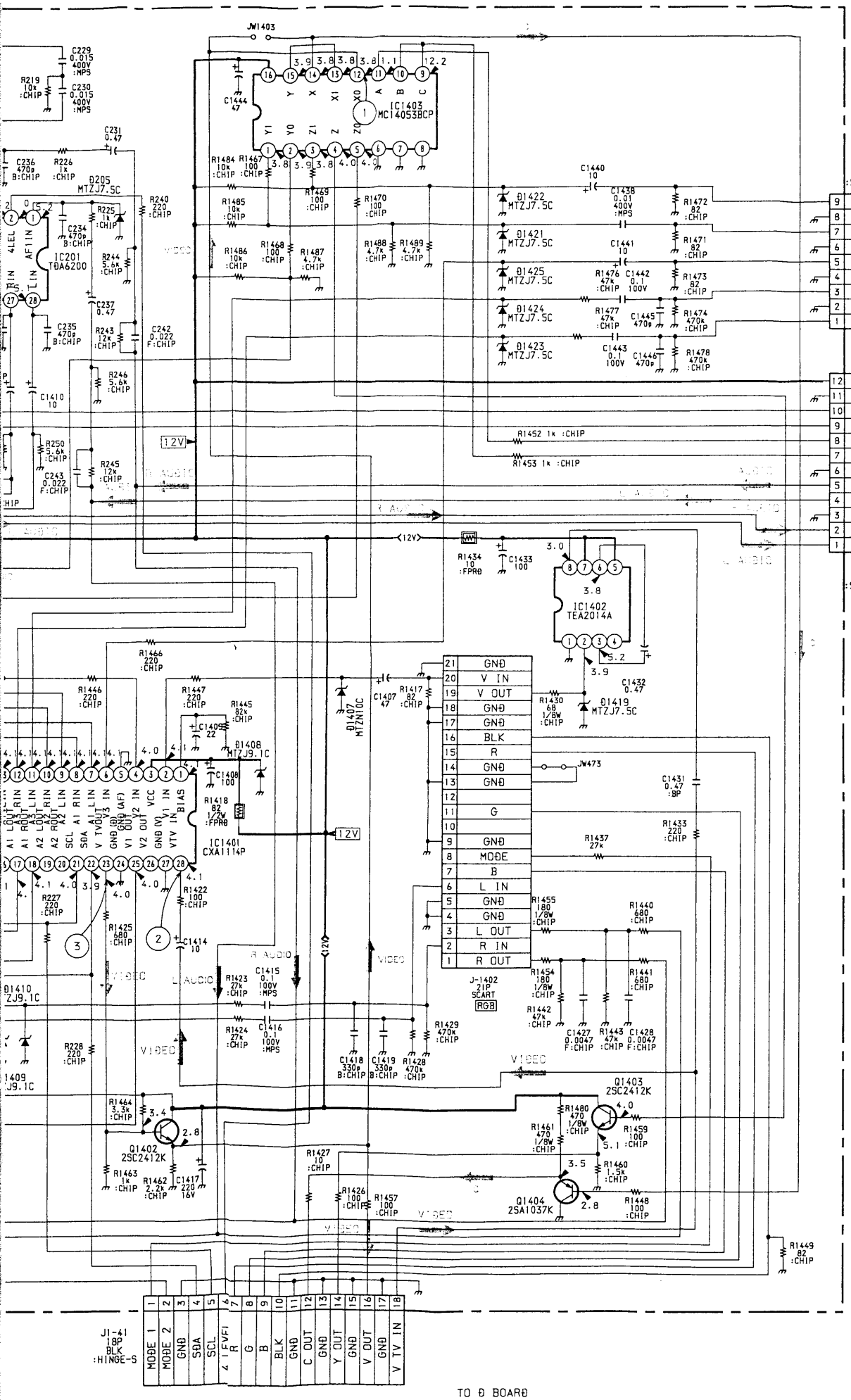
IC1403 MC14053BCP
IC201 TBA6200
IC1401 CXA1114P
Q201 2SC2412K
Q202 2SC2412K
Q1401 2SA1037K
Q1402 2SC2412K
J-1403 21P
J-1402 21P SCART
J1-41 18P BLK :HINGE-S
GND
V IN
V OUT
BLK
COLOUR IN
MODE
L IN
L OUT
R IN
R OUT
12V
TO Ø BOARD Ø-51
TO Ø BOA Ø-41
J1 BOARD *MARK
• WAVEFORMS J1 BC



• J1 BC

IC20	
IC140	
IC140	
IC140	
IC150	
Q20	
Q20	
Q140	
Q140	
Q140	
Q140	
D20	
D20	
D20	
D20	
D140	
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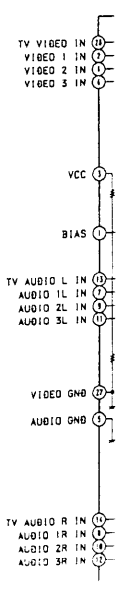
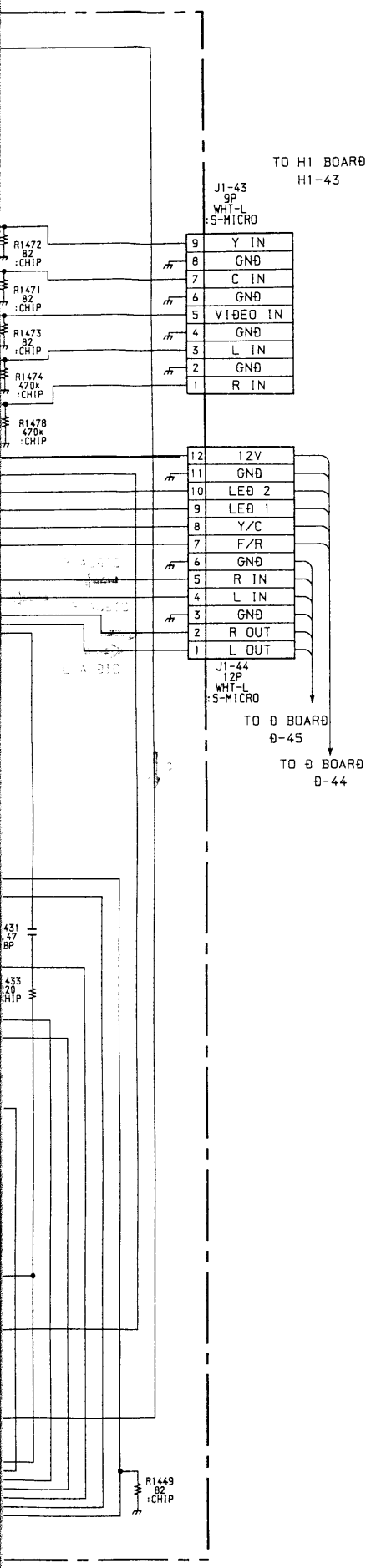
D150	
D151	

J1 BOARD

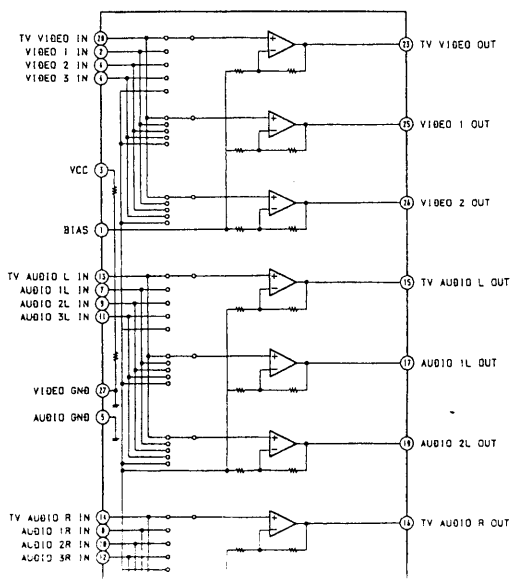




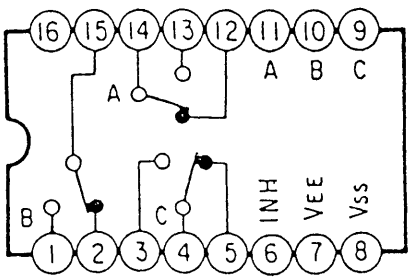
• J1 BOARD

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1037K	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	2SC2412K	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZ-9.1C	PROTECT
D202	MTZ-9.1C	PROTECT
D205	MTZ-7.5C	PROTECT
D206	MTZ-7.5C	PROTECT
D1401	MTZ-7.5CJ	PROTECT
D1403	MTZ-7.5CJ	PROTECT
D1404	MTZ-7.5CJ	PROTECT
D1405	MTZ-7.5CJ	PROTECT
D1406	MTZ-7.5CJ	PROTECT
D1407	MTZ-10C	PROTECT
D1408	MTZ-9.1C	REG
D1409	MTZ-9.1C	PROTECT
D1410	MTZ-9.1C	PROTECT
D1415	MTZ-7.5C	PROTECT
D1418	MTZ-7.5CJ	PROTECT
D1419	MTZ-7.5C	PROTECT
D1420	MTZ-7.5C	PROTECT
D1421	MTZ-7.5CJ	PROTECT
D1422	MTZ-7.5CJ	PROTECT
D1423	MTZ-7.5CJ	PROTECT
D1424	MTZ-7.5CJ	PROTECT
D1425	MTZ-7.5CJ	PROTECT
D1426	MTZ-7.5CJ	PROTECT
D1501	RGP10GPKG23	PROTECT
D1502	1SS133	DECOUPLING H SIZE
D1503	1SS133	CLIPPING V PARABORA
D1504	1SS133	CLIPPING H PULSE
D1505	1SS133	REG
D1506	MTZJ-T-77-36D	PROTECT
D1507	1SS133	PROTECT
D1510	1SS133	REG

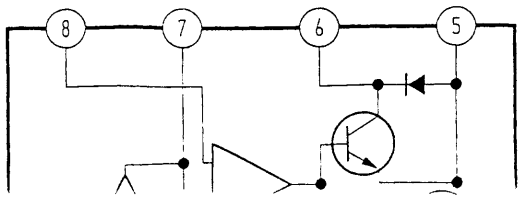
J1 BOARD IC1401 CXA1114P

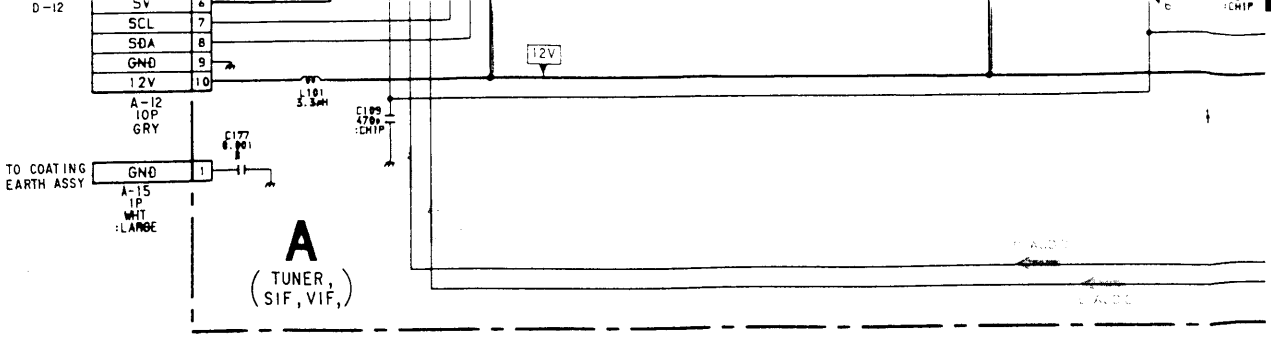


J1 BOARD IC1403 MC14053BCP

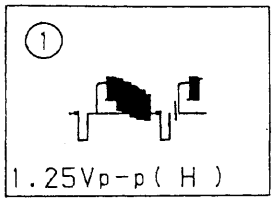


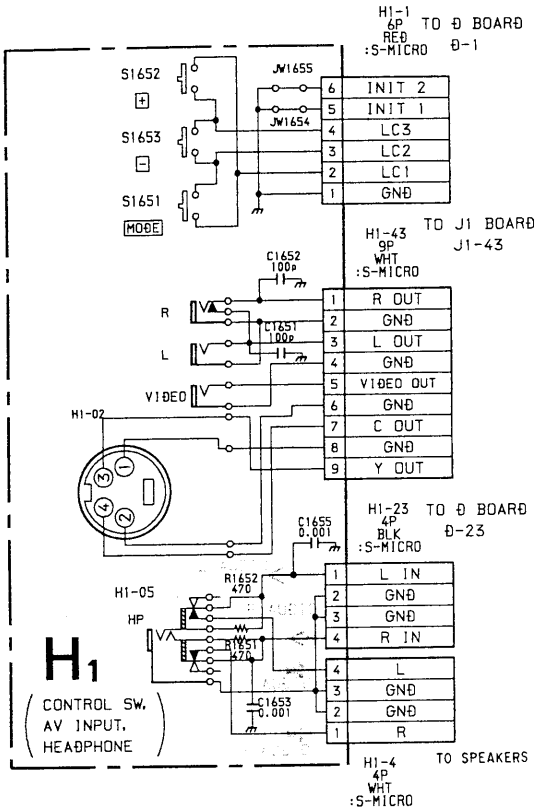
J1 BOARD IC1501 TEA2031A



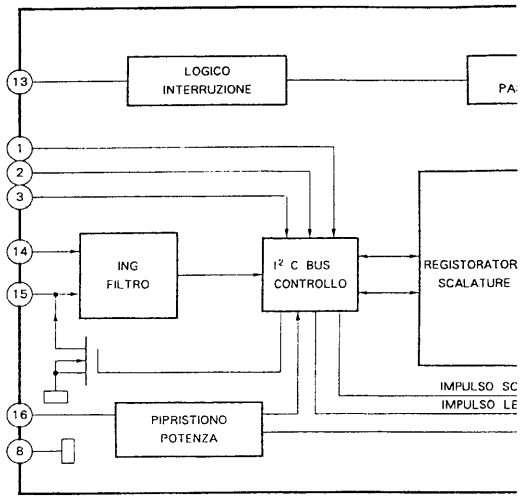


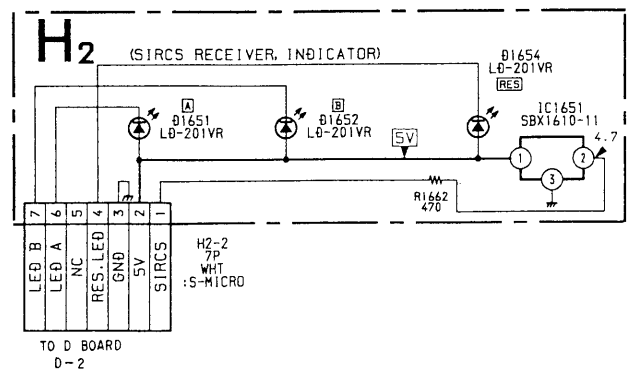
• WAVEFORMS A BOARD

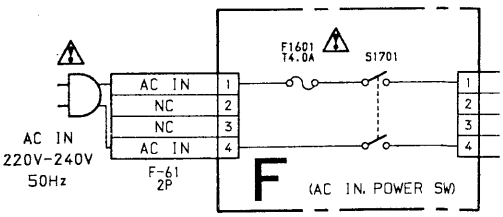




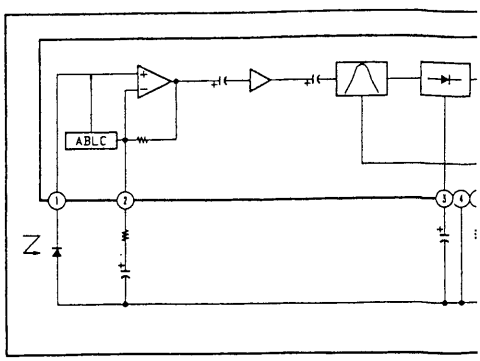
A BOARD IC103 PCF8574





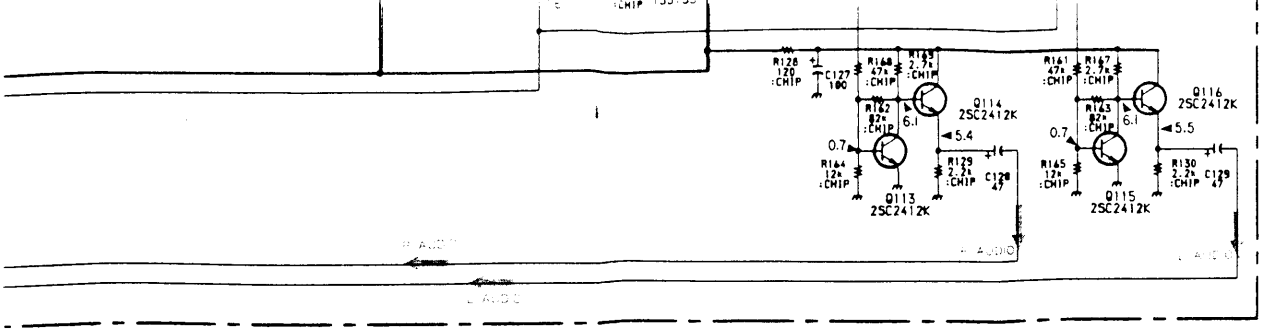


H2 BOARD IC1651 SBX1610-11

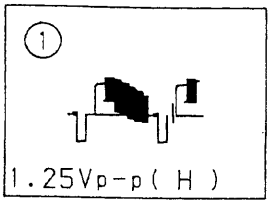


• H2 BOARD

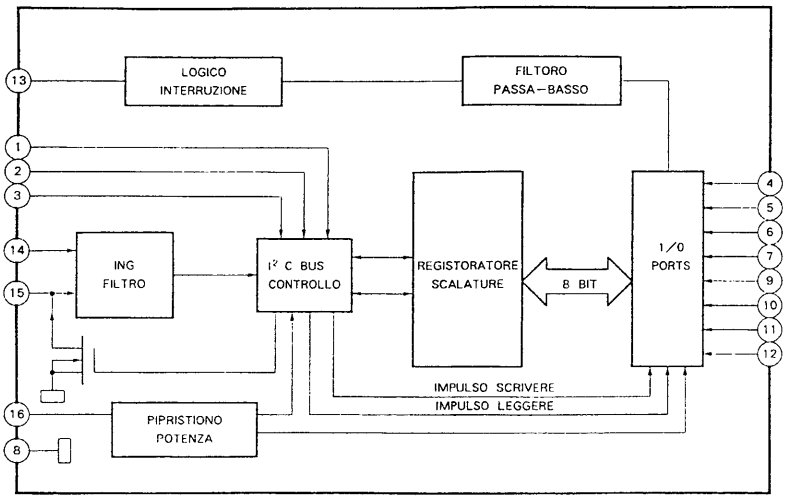
IC1651	SBX1610-11	INFRARED RECIVER
D1651	LD-201VR	AUDIO CHANNEL A INDICATOR
D1652	LD-201VR	AUDIO CHANNEL B INDICATOR
D1654	LD-201VR	RESET

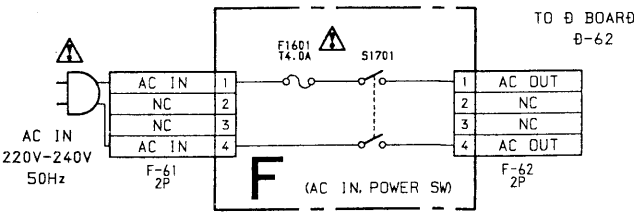


· WAVEFORMS A BOARD

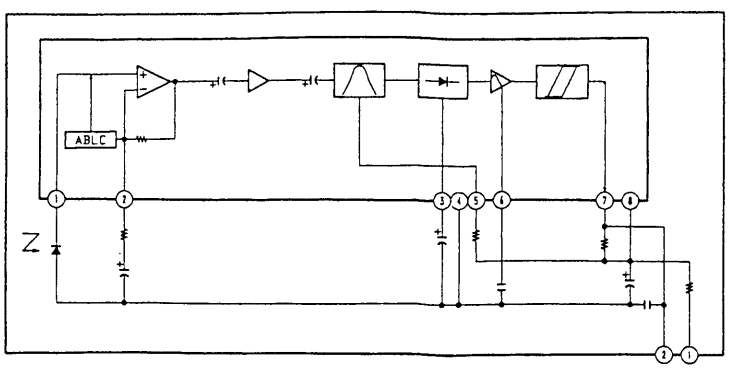


A BOARD IC103 PCF8574





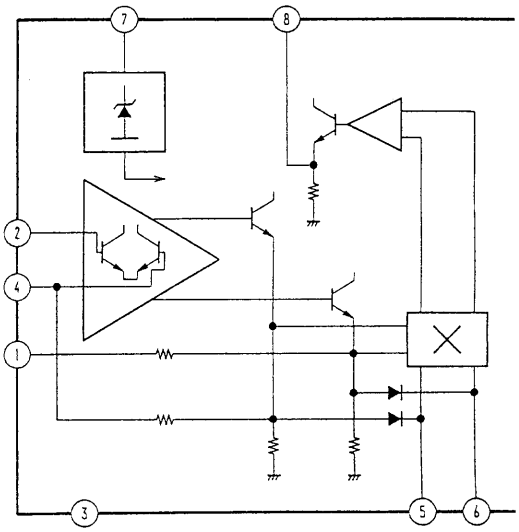
H2 BOARD IC1651 SBX1610-11

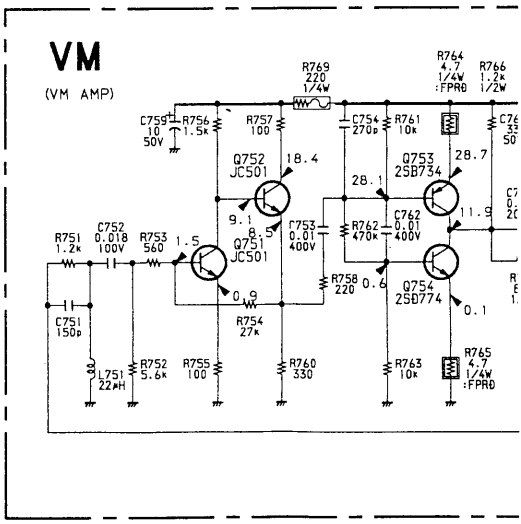


• A BOARD

IC103	PCF8574	EXPANDER
IC105	TBA129	FM · SIF
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER
Q182	DTC144EK	4 LEVEL SW

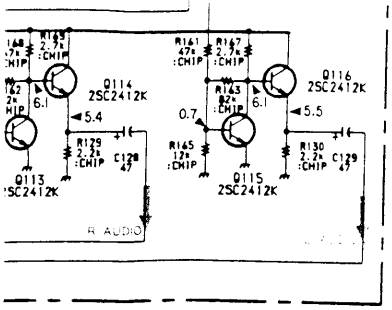
A BOARD IC105 TBA129





• VM BOARD (29 INCH ONLY)

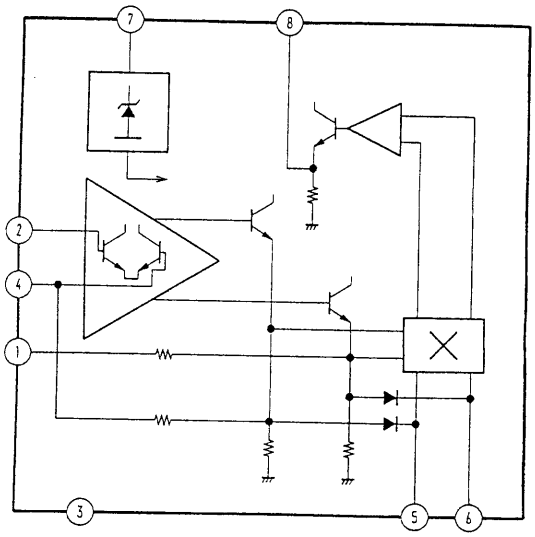
Q751	JC501	REF AMP
Q752	JC501	REF AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SD774	PUSH-PULL OUT

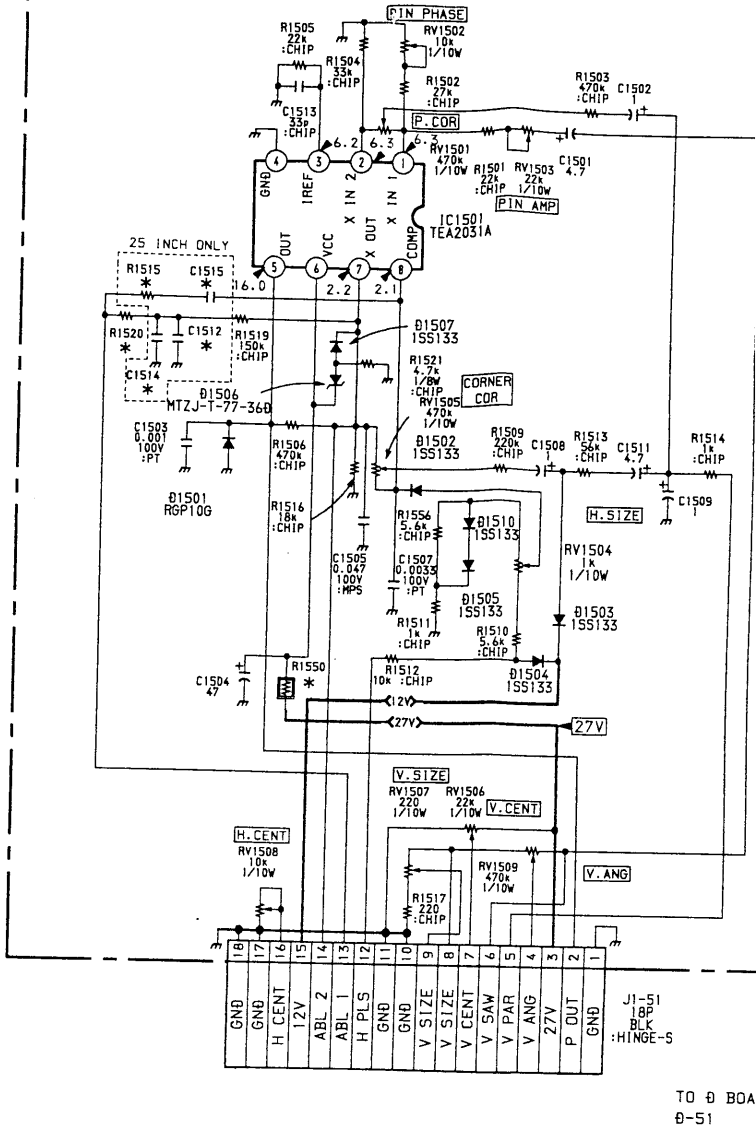


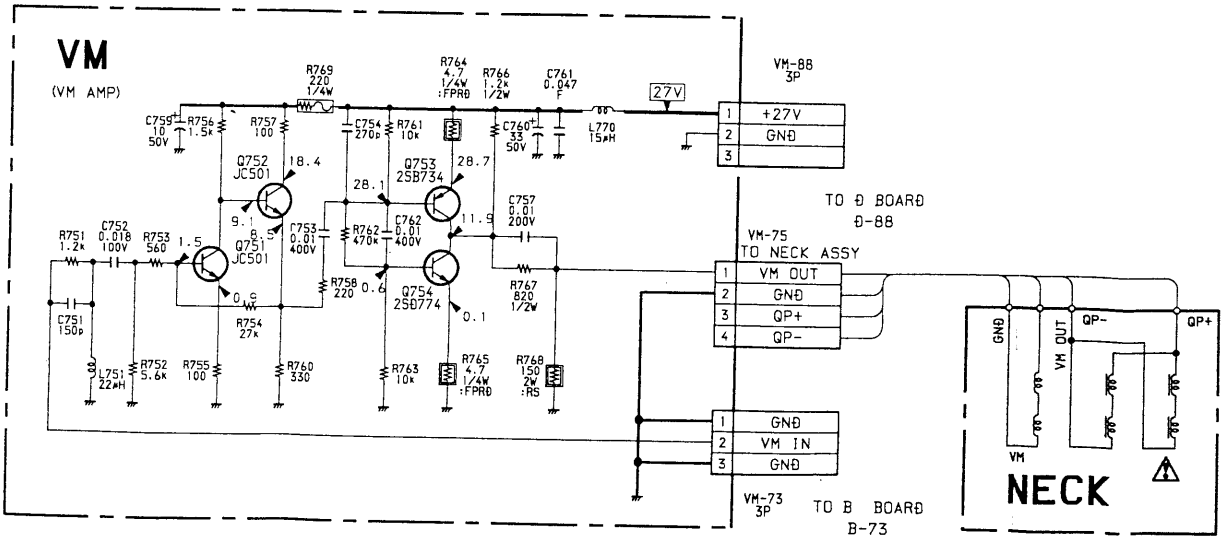
• A BOARD

IC103	PCF8574	EXPANDER
IC105	TBA129	FM · SIF
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER
Q182	DTC144EK	4 LEVEL SW

A BOARD IC105 TBA129

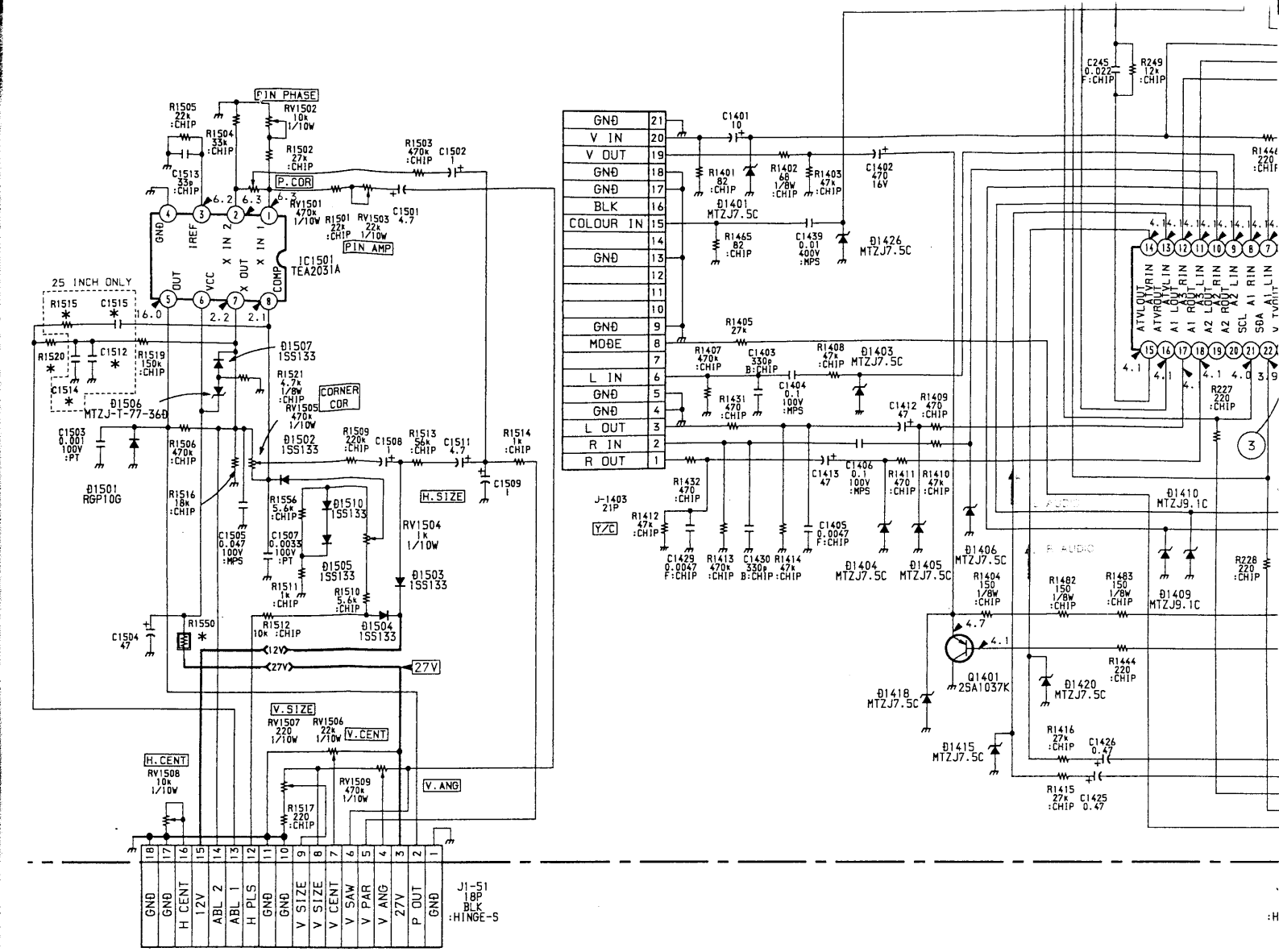


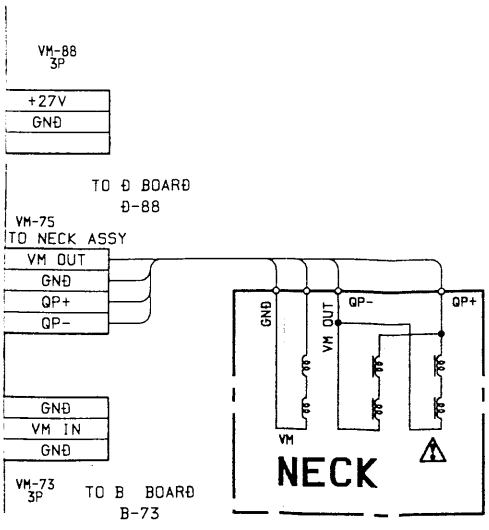




• VM BOARD (29 INCH ONLY)

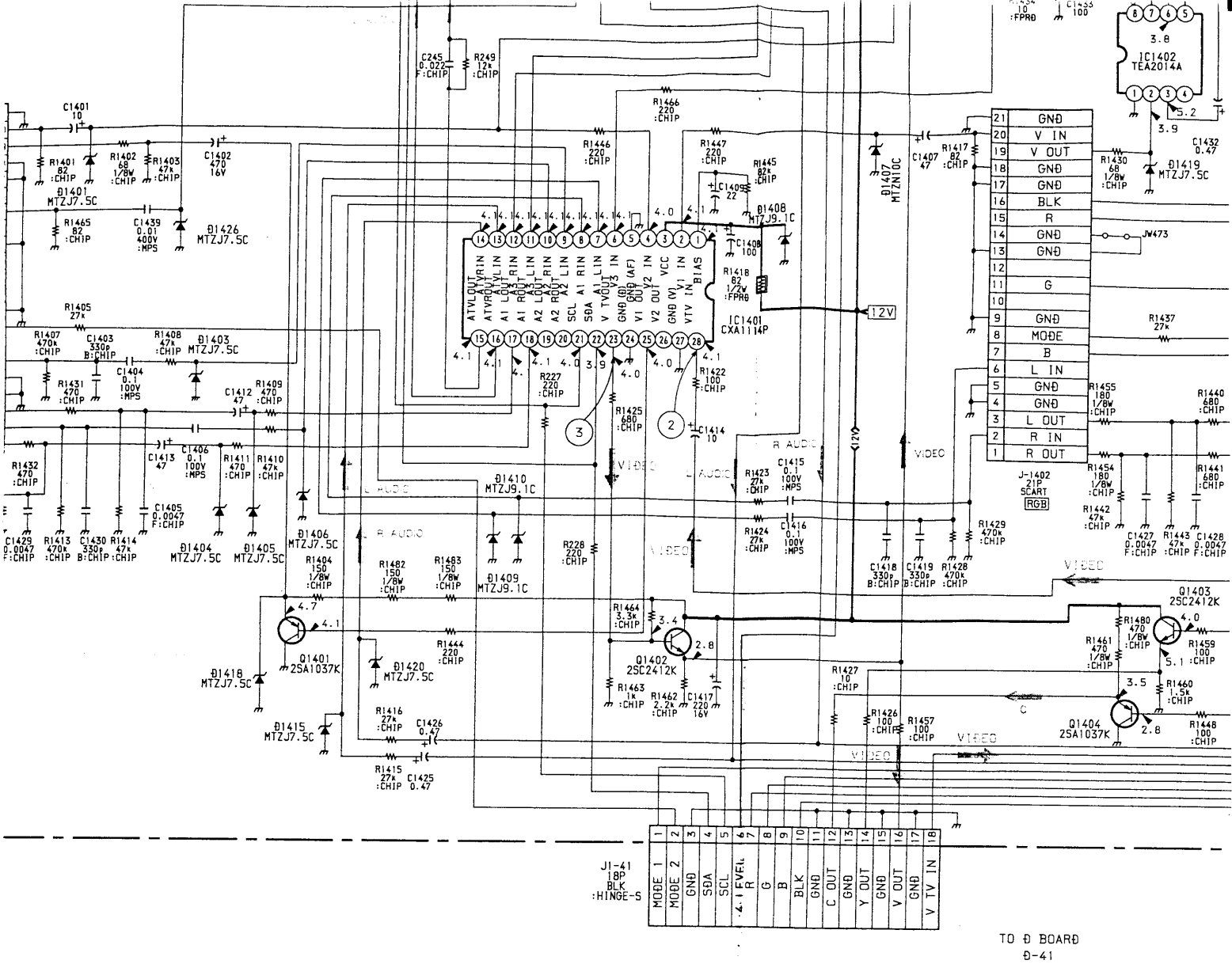
Q751	JC501	REF AMP
Q752	JC501	REF AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SD774	PUSH-PULL OUT





J1 BOARD ＊MARK

	25
C1512	0.006
C1514	0.002
C1515	82
R1515	68
R1520	47
R1550	J

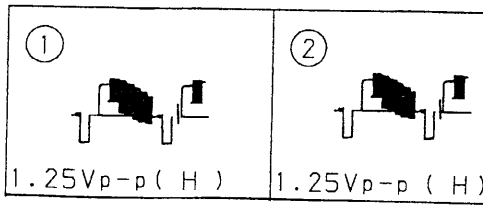


J1 BOARD ＊MARK

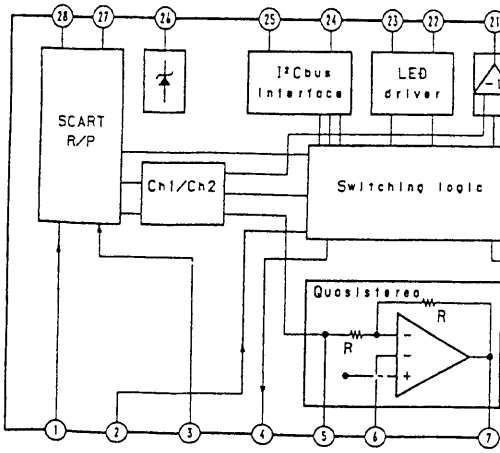
	25 INCH	29INCH
C1512	0.0068 400V	–
C1514	0.0022 250V	–
C1515	820P	–
R1515	680K	–
R1520	470K	390K
R1550	JW	1 W F

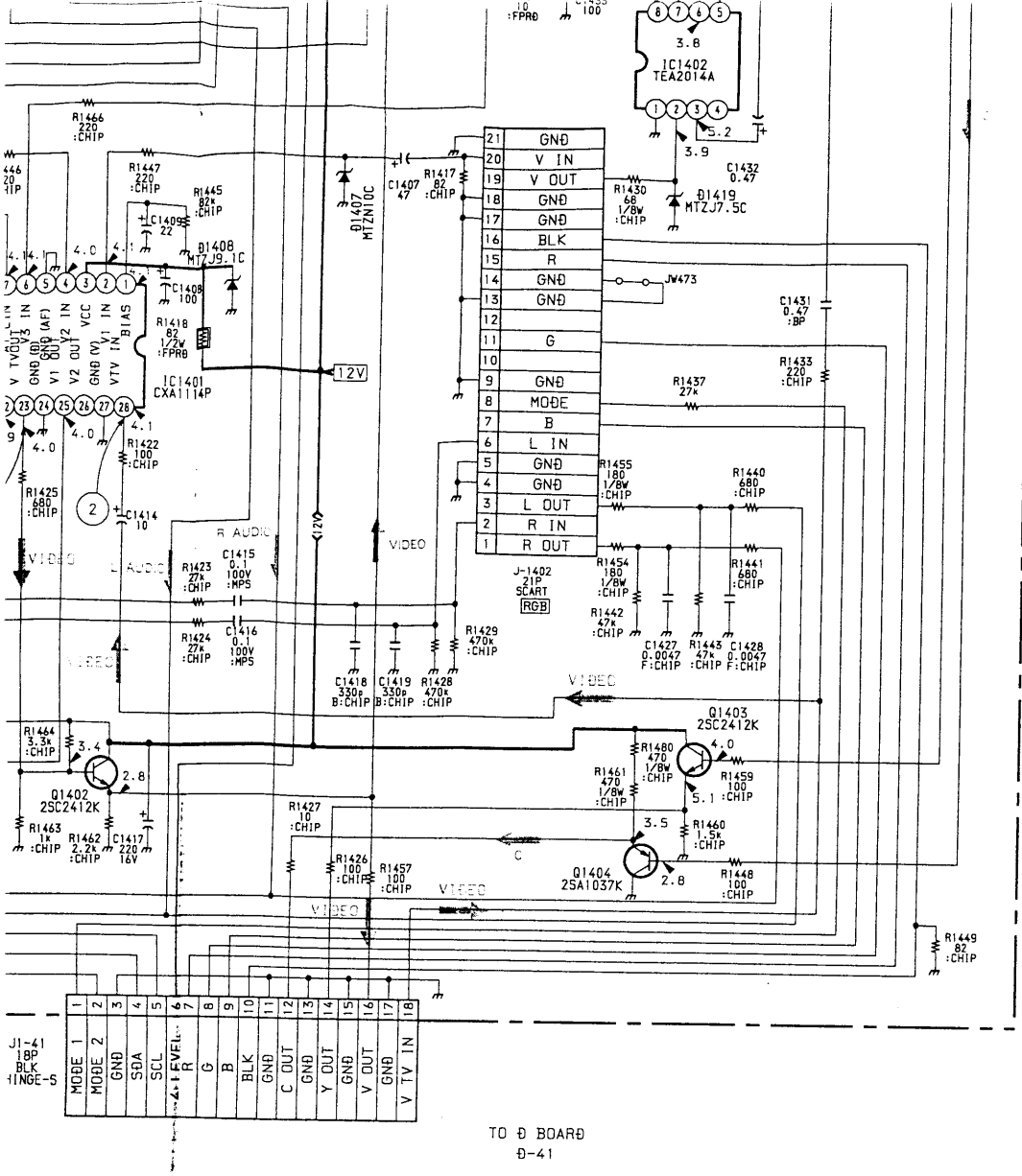
– : NOT MOUNTED

・WAVEFORMS J1 BOARD



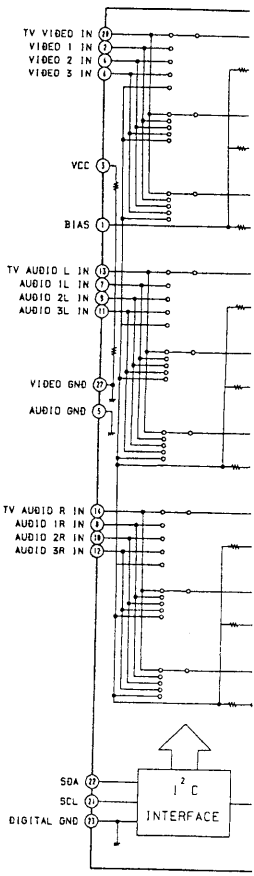
J1 BOARD IC201 TDA6200



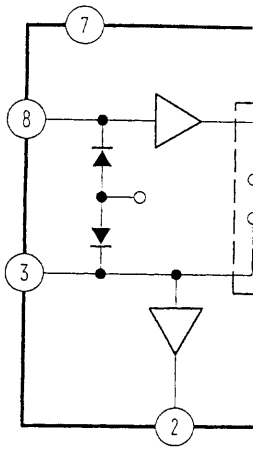


D1415	MTZ-7.
D1418	MTZ-7.
D1419	MTZ-7.
D1420	MTZ-7.
D1421	MTZ-7.
D1422	MTZ-7.
D1423	MTZ-7.
D1424	MTZ-7.5
D1425	MTZ-7.5
D1426	MTZ-7.5
D1501	RGP10(
D1502	1SS133
D1503	1SS133
D1504	1SS133
D1505	1SS133
D1506	MTZJ-T
D1507	1SS133
D1510	1SS133

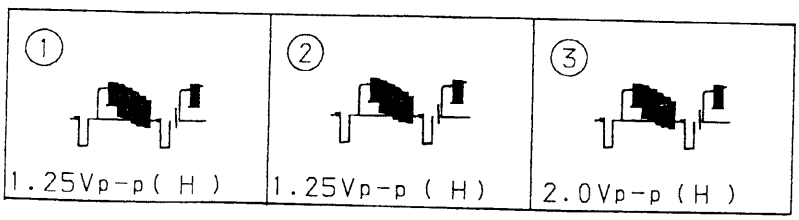
J1 BOARD IC1401 (



J1 BOARD IC1402 T



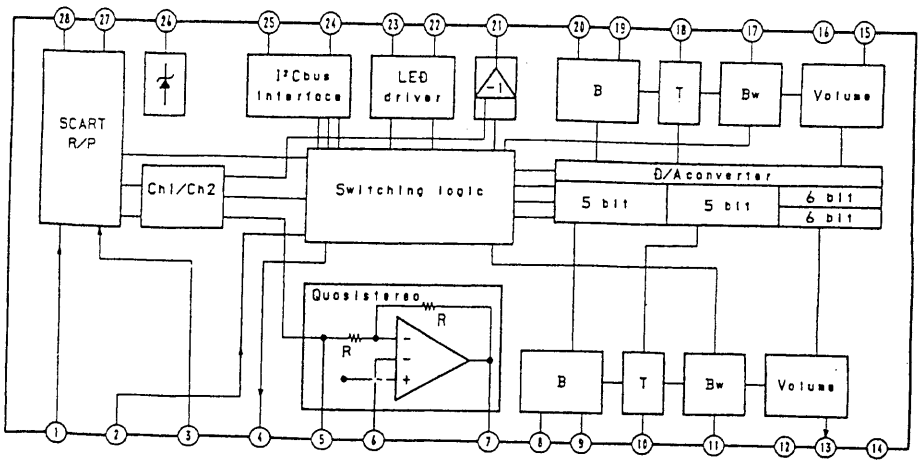
· WAVEFORMS J1 BOARD

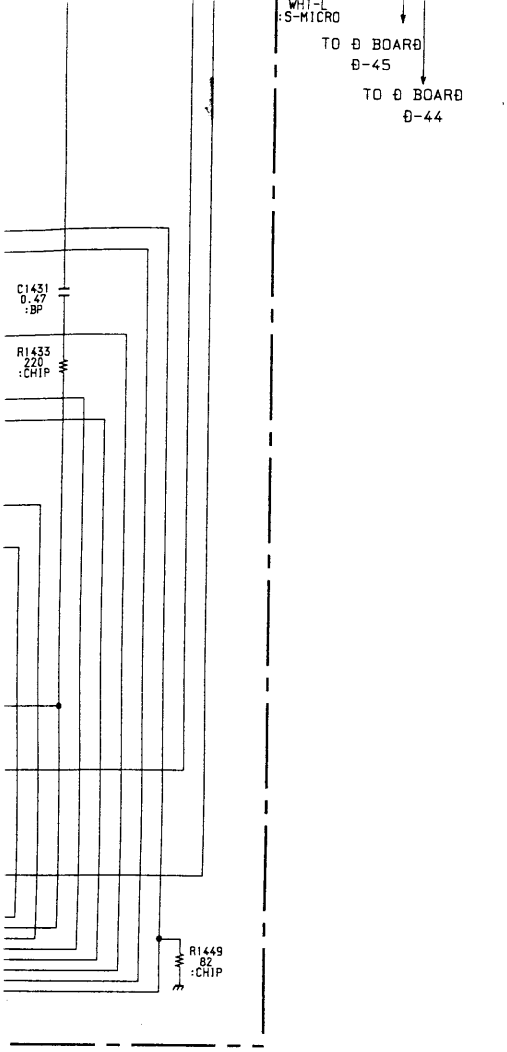


NCH	29INCH
3 400V	–
2 250V	–
20P	–
30K	–
70K	90K
W	1 W F

– : NOT MOUNTED

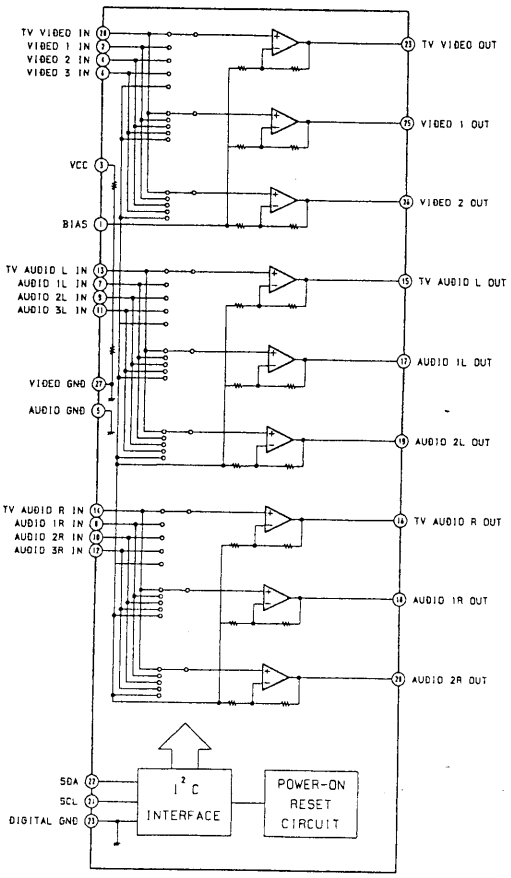
J1 BOARD IC201 TDA6200



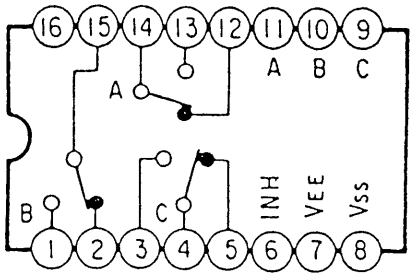


D1418	MTZ-7.5CJ	PROTECT
D1419	MTZ-7.5C	PROTECT
D1420	MTZ-7.5C	PROTECT
D1421	MTZ-7.5CJ	PROTECT
D1422	MTZ-7.5CJ	PROTECT
D1423	MTZ-7.5CJ	PROTECT
D1424	MTZ-7.5CJ	PROTECT
D1425	MTZ-7.5CJ	PROTECT
D1426	MTZ-7.5CJ	PROTECT
D1501	RGP10GPKG23	PROTECT
D1502	1SS133	DECOUPLING H SIZE
D1503	1SS133	CLIPPING V PARABORA
D1504	1SS133	CLIPPING H PULSE
D1505	1SS133	REG
D1506	MTZJ-T-77-36D	PROTECT
D1507	1SS133	PROTECT
D1510	1SS133	REG

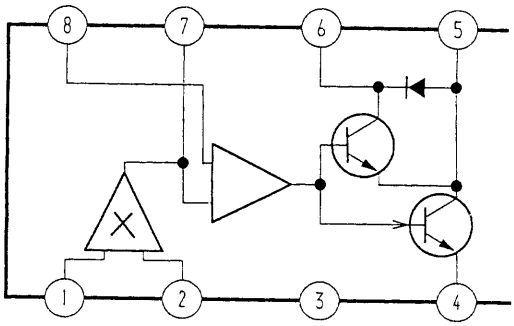
J1 BOARD IC1401 CXA1114P

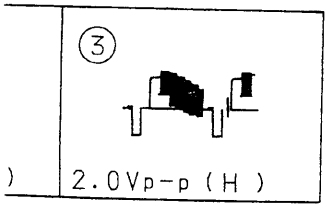


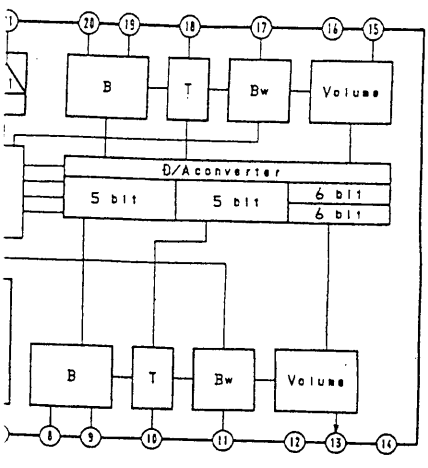
J1 BOARD IC1403 MC14053BCP



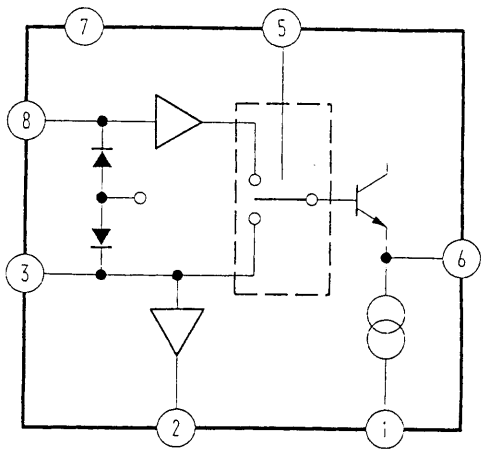
J1 BOARD IC1501 TEA2031A



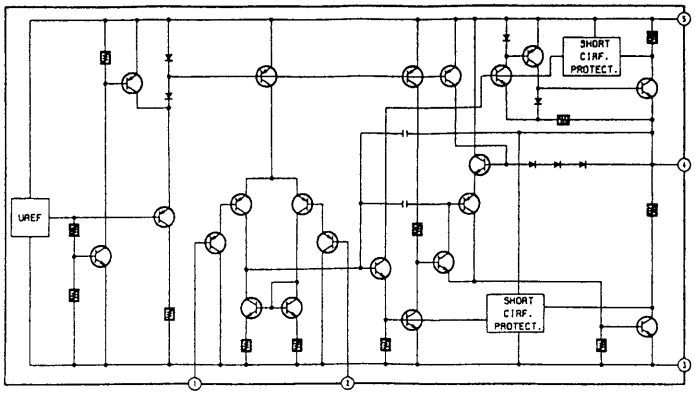




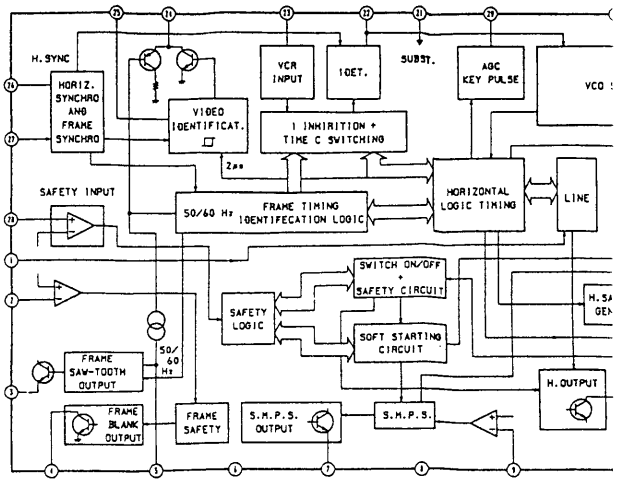
J1 BOARD IC1402 TEA2014A



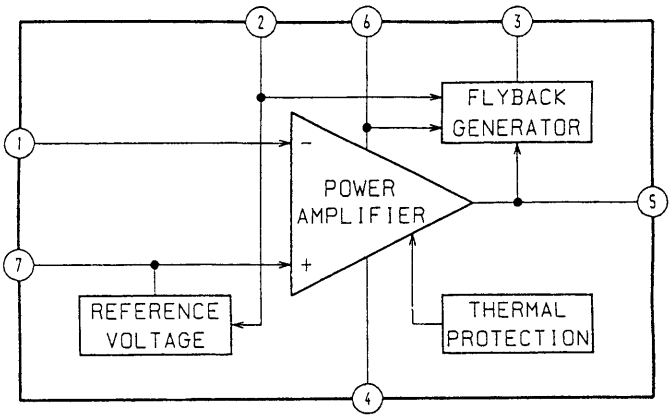
D BOARD IC251/261 TDA2050



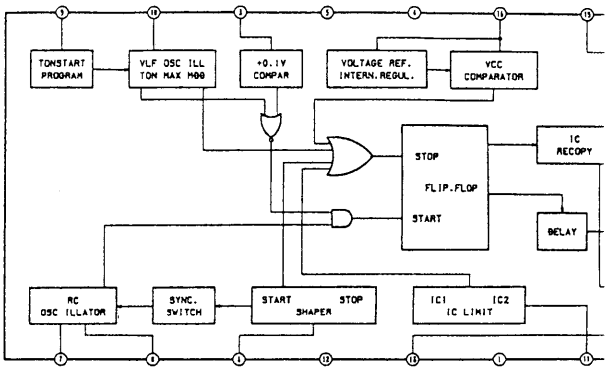
D BOARD IC501 TEA2028B



D BOARD IC502 TDA8170



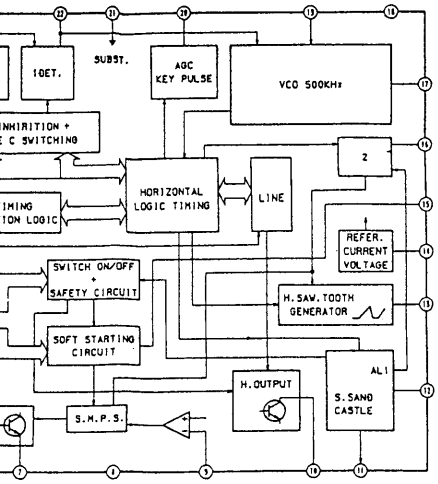
D BOARD IC601 TEA2260



WAVEFORMS D BOARD

① 1.0 Vp-p(H)	② 2.5 Vp-p(V)	③ 4.8 Vp-p(V)
④ 3.0 Vp-p(V)	⑤ 4.5 Vp-p(H)	⑥ 9.0 Vp-p(H)
⑦ 12.0Vp-p(H)	⑧ 3.4 Vp-p(H)	⑨ 0.1 Vp-p(503KHz)
⑩	⑪	⑫

8B



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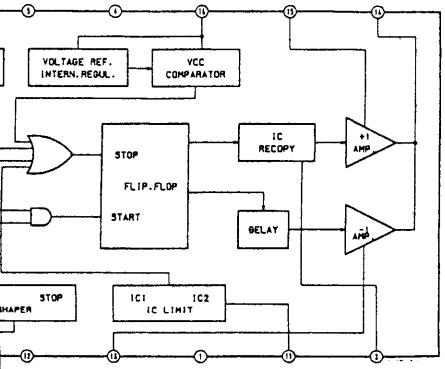
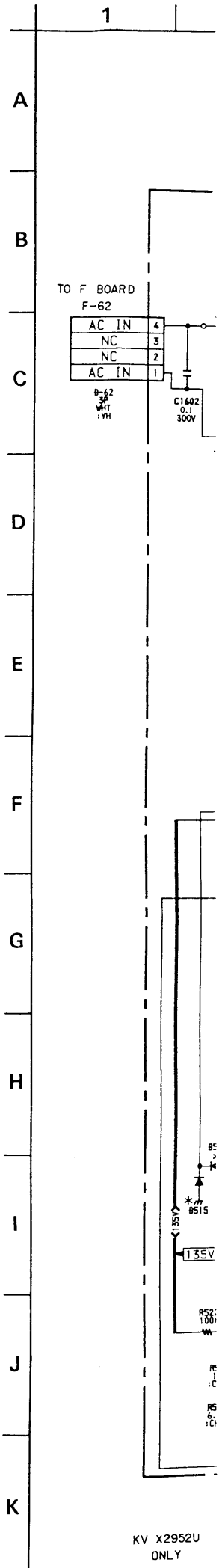
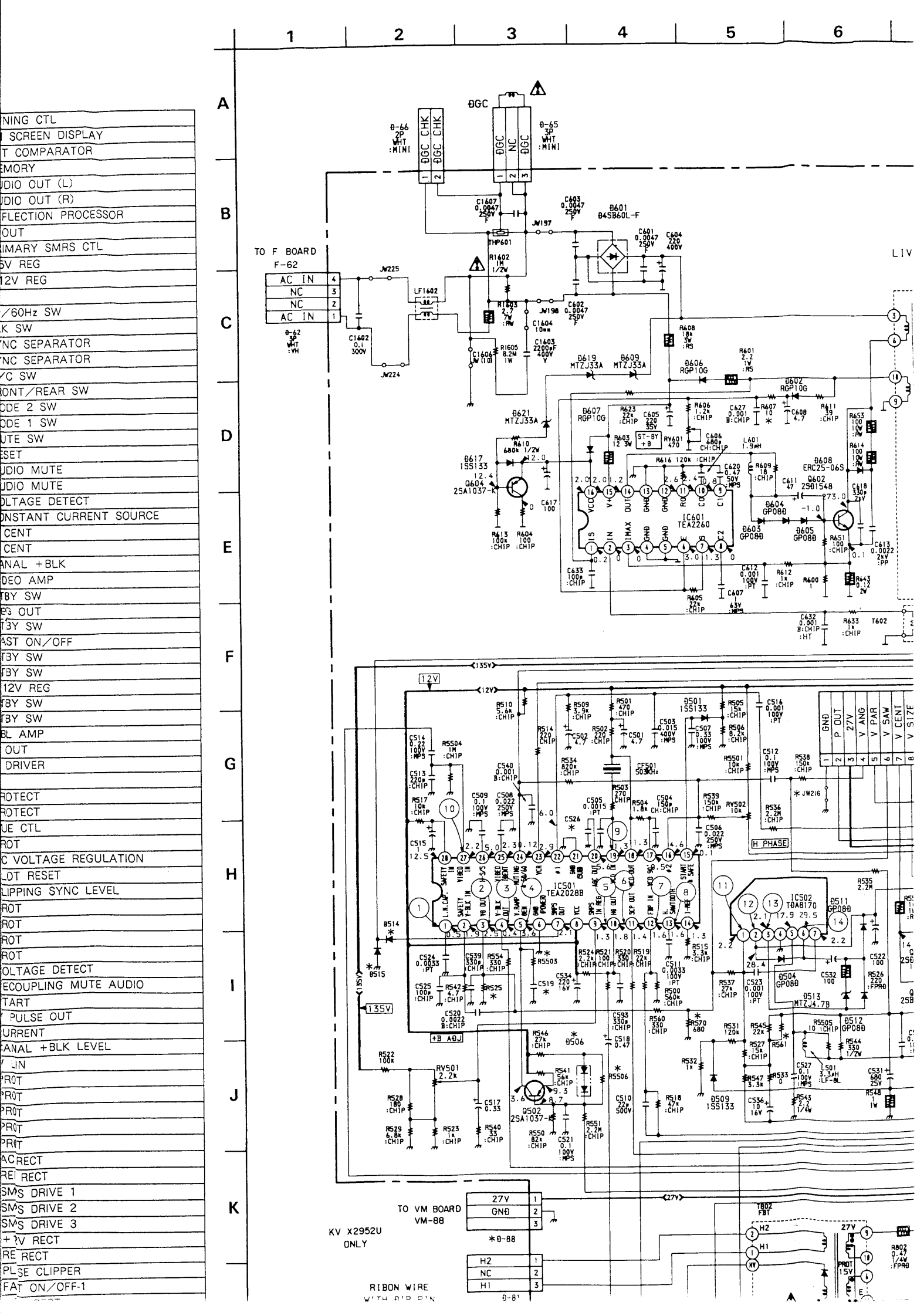


• D BOARD

IC001	SDA20560-A012	TUNING CTL
IC002	MC14051BCP	ON SCREEN DISPLAY
IC003	BA4558	AFT COMPARATOR
IC005	SDA2546	MEMORY
IC251	TDA2050	AUDIO OUT (L)
IC261	TDA2050	AUDIO OUT (R)
IC501	TEA2028B	DEFLECTION PROCESSOR
IC502	TDA8170	V OUT
IC601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
IC608	TYA7812CT	+12V REG
Q001	DTC144EK	50/60Hz SW
Q002	DTC144EK	BLK SW
Q003	2SA1037-K	SYNC SEPARATOR
Q004	2SA1037-K	SYNC SEPARATOR
Q005	DTC144EK	Y/C SW
Q006	DTC144EK	FRONT/REAR SW
Q007	2SC2412-K	MODE 2 SW
Q008	2SC2412-K	MODE 1 SW
Q009	2SC2412-K	MUTE SW
Q010	2SC2412-K	RESET
Q251	2SC2412-K	AUDIO MUTE
Q261	2SC2412-K	AUDIO MUTE
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CURRENT SOURCE
Q505	2SD774-4	V CENT
Q506	2SB734-3	V CENT
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	2SD1548	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD2096	+12V REG
Q608	2SC2412-K	STBY SW
Q609	2SD789	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	2SD1941-06	H OUT
Q805	2SC2688-L	H DRIVER
D001	MTZJ-6.8C	PROTECT
D002	MTZJ-6.8C	PROTECT
D003	1SS133	HUE CTL
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC VOLTAGE REGULATION
D007	MTZJ3.9B	PLOT RESET
D009	MTZJ5.6B	CLIPPING SYNC LEVEL
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLTAGE DETECT
D272	1SS133	DECOUPLING MUTE AUDIO
D501	1SS133	START
D504	GP08DPKG23	V PULSE OUT
D506	DA204K	CURRENT
D508	1SS133	CANAL +BLK LEVEL
D509	1SS133	V IN
D511	GP08DPKG23	PROT
D512	GP08DPKG23	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT
D515	1SS133	PROT
D601	D4SB60L-F	AC RECT
D602	RGP10GPKG23	RE RECT
D603	GP08DPKG23	SMPS DRIVE 1
D604	GP08DPKG23	SMPS DRIVE 2
D605	GP08DPKG23	SMPS DRIVE 3
D606	RGP10GPKG23	+?V RECT
D607	RGP10GPKG23	RE RECT
D608	ERC25-06S	PULSE CLIPPER
D609	MTZJ33A	FAT ON/OFF-1




1
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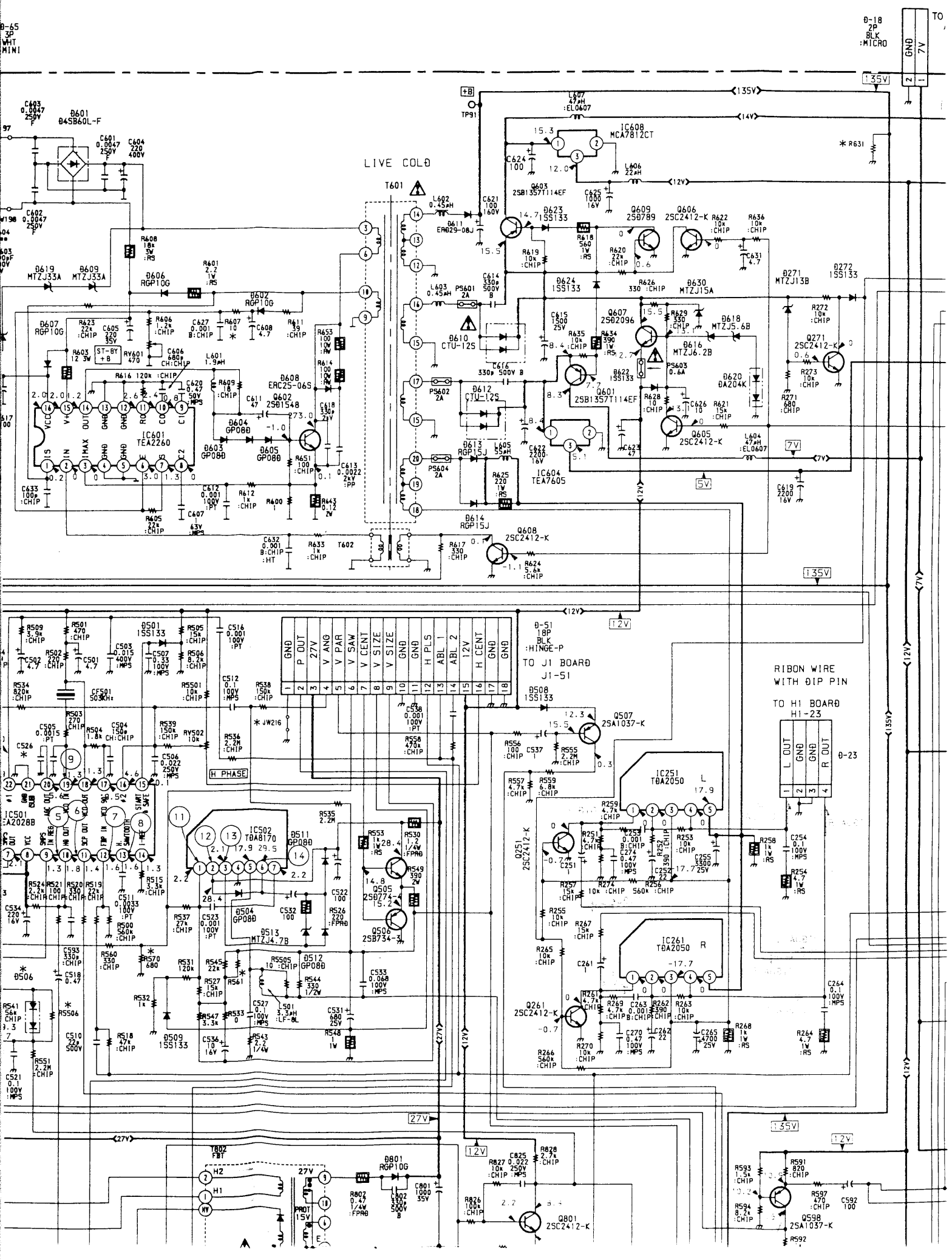
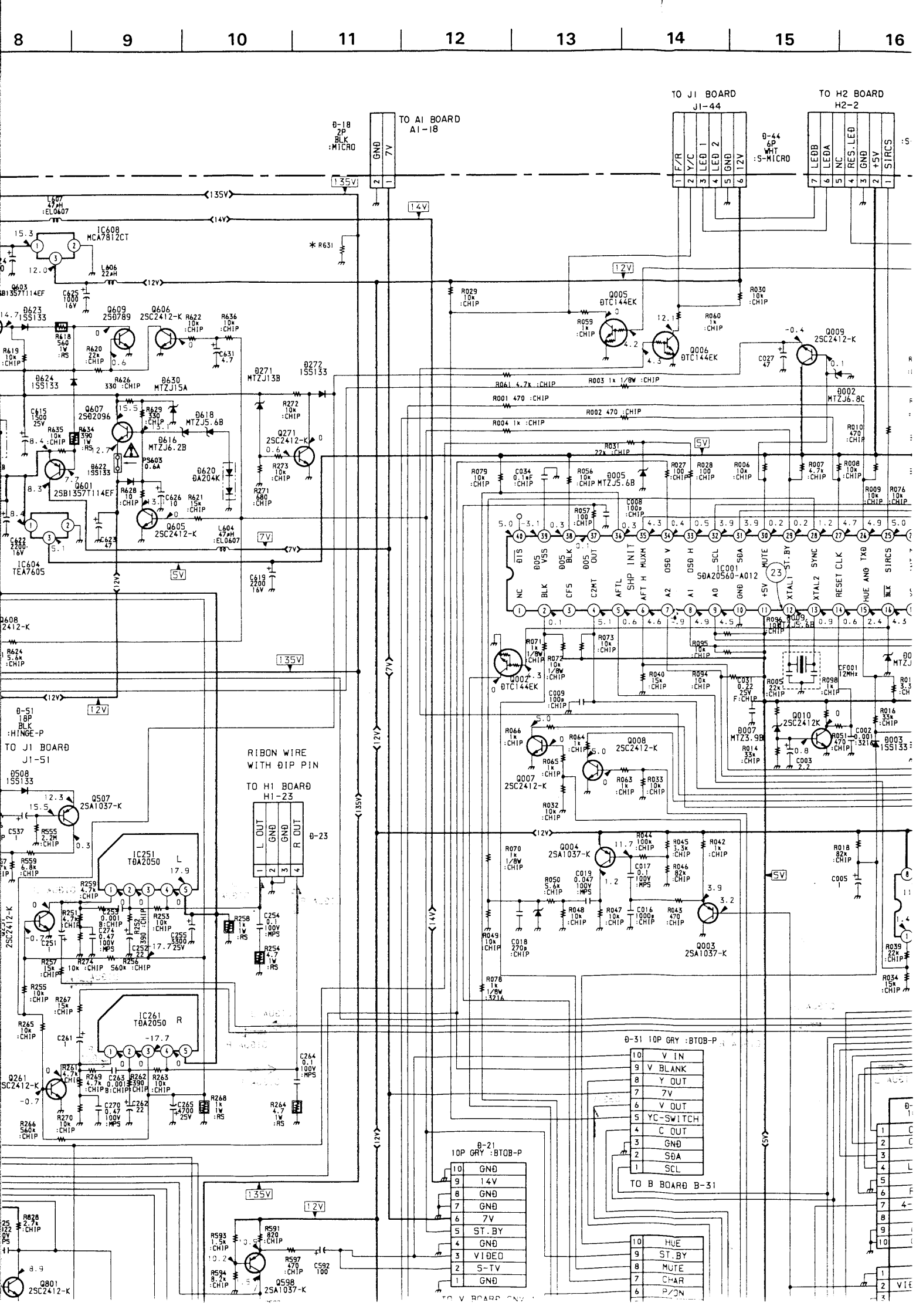
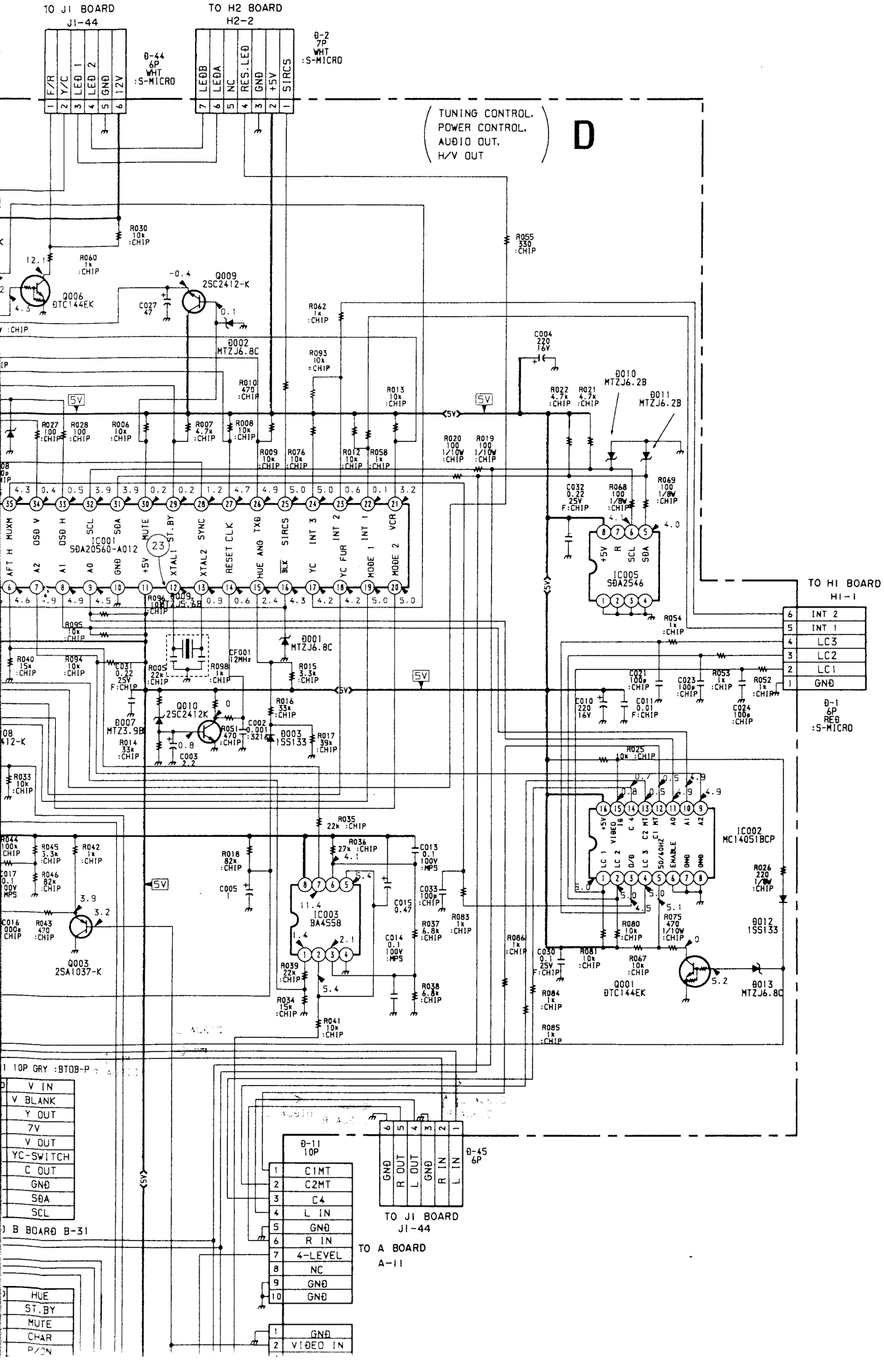
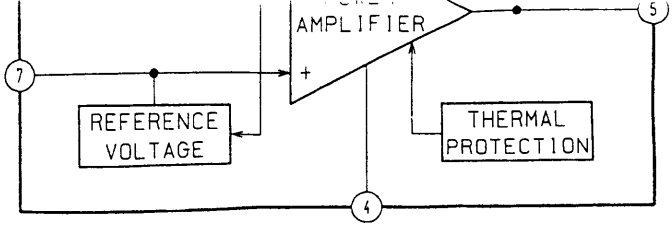
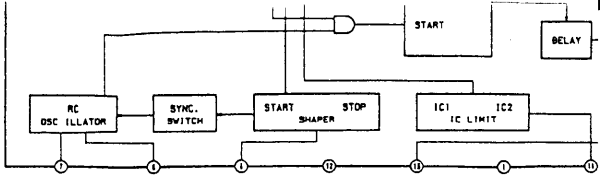
4
5
6
A
B
C
D
E
F
G
H
I
J
K
NING CTL
SCREEN DISPLAY
T COMPARATOR
EMORY
UDIO OUT (L)
UDIO OUT (R)
FLECTION PROCESSOR
OUT
IMARY SMRS CTL
5V REG
12V REG
/60Hz SW
K SW
NC SEPARATOR
NC SEPARATOR
/C SW
RONT/REAR SW
ODE 2 SW
ODE 1 SW
UTE SW
ESET
UDIO MUTE
UDIO MUTE
OLTAGE DETECT
ONSTANT CURRENT SOURCE
CENT
CENT
ANAL +BLK
DEO AMP
TBY SW
EG OUT
T3Y SW
AST ON/OFF
TBY SW
TBY SW
12V REG
TBY SW
TBY SW
BL AMP
OUT
DRIVER
ROTECT
ROTECT
UE CTL
ROT
C VOLTAGE REGULATION
LOT RESET
LIPPING SYNC LEVEL
ROT
ROT
ROT
ROT
OLTAGE DETECT
ECOUPLING MUTE AUDIO
TART
PULSE OUT
URRENT
ANAL +BLK LEVEL
JIN
ROT
ROT
ROT
ROT
PRT
ACRECT
REI RECT
SMS DRIVE 1
SMS DRIVE 2
SMS DRIVE 3
+3V RECT
RE RECT
PLSE CLIPPER
FAT ON/OFF-1
TO F BOARD
F-62
AC IN
NC
NC
AC IN
TO VM BOARD
VM-88
KV X2952U
ONLY
RIBON WIRE
27V
GND
H2
NC
H1
IC601
TEA2260
IC501
TEA2028B
IC502
T0A8170
Q502
2SA1037-K
Q604
2SA1037-K
H PHASE
135V
12V
+B ADJ


LIVE COLD
IC601 TEA2260
IC604 TEA7605
IC608 MCA7812CT
IC251 TDA2050 L
IC261 TDA2050 R
IC502 TDA8170
IC501 TA2028B
T601
T602
T802 FBT
TO J1 BOARD J1-51
RIBON WIRE WITH DIP PIN
TO H1 BOARD H1-23
H PHASE
135V
12V
27V
7V
5V


8
9
10
11
12
13
14
15
16
TO J1 BOARD
J1-44
TO H2 BOARD
H2-2
TO A1 BOARD
A1-18
CN-18
2P
BLK
:MICRO
CN-44
6P
WHT
:S-MICRO
F/R
Y/C
LED 1
LED 2
GND
12V
LEDB
LEDA
NC
RES.LED
GND
+5V
SIRCS
135V
14V
12V
7V
5V
IC608
MCA7812CT
IC604
TEA7605
IC001
S0A20560-A012
IC251
T0A2050
L
IC261
T0A2050
R
Q603
2SB1357T114EF
Q609
2S0789
Q606
2SC2412-K
Q607
2S02096
Q601
2SB1357T114EF
Q605
2SC2412-K
Q608
2SC2412-K
Q005
DTC144EK
Q006
DTC144EK
Q009
2SC2412-K
Q002
DTC144EK
Q008
2SC2412-K
Q007
2SC2412-K
Q004
2SA1037-K
Q003
2SA1037-K
Q010
2SC2412K
Q507
2SA1037-K
Q508
1SS133
Q261
2SC2412-K
Q801
2SC2412-K
Q598
2SA1037-K
D618
MTZJ5.6B
D616
MTZJ6.2B
D620
DA204K
D630
MTZJ15A
D271
MTZJ13B
D272
1SS133
D002
MTZJ6.8C
D005
MTZJ5.6B
D007
MTZ3.9B
D003
1SS133
L607
47μH
:EL0607
L606
22μH
L604
47μH
:EL0607
CF001
12MHz
RIBON WIRE
WITH DIP PIN
TO H1 BOARD
H1-23
CN-23
L OUT
GND
GND
R OUT
CN-51
18P
BLK
:HINGE-P
TO J1 BOARD
J1-51
CN-31 10P GRY :BTOB-P
V IN
V BLANK
Y OUT
7V
V OUT
YC-SWITCH
C OUT
GND
SDA
SCL
TO B BOARD B-31
CN-21
10P GRY :BTOB-P
GND
14V
GND
GND
7V
ST.BY
GND
VIDEO
S-TV
GND
HUE
ST.BY
MUTE
CHAR
P/ON


TO J1 BOARD
J1-44
TO H2 BOARD
H2-2
TUNING CONTROL,
POWER CONTROL,
AUDIO OUT,
H/V OUT
D
IC001
SDA20560-A012
IC005
SDA2546
IC002
MC14051BCP
IC003
BA4558
Q001
DTC144EK
Q002
MTZJ6.8C
Q003
2SA1037-K
Q006
DTC144EK
Q007
MTZ3.9B
Q009
2SC2412-K
Q010
2SC2412K
Q011
MTZJ6.2B
D001
MTZJ6.8C
D002
MTZJ6.8C
D003
1SS133
D010
MTZJ6.2B
D011
MTZJ6.2B
D012
1SS133
D013
MTZJ6.8C
CF001
12MHz
TO HI BOARD
HI-1
INT 2
INT 1
LC3
LC2
LC1
GND
TO J1 BOARD
J1-44
TO A BOARD
A-11
V IN
V BLANK
Y OUT
7V
V OUT
YC-SWITCH
C OUT
GND
SDA
SCL
HUE
ST.BY
MUTE
CHAR
P/ON
C1MT
C2MT
C4
L IN
GND
R IN
4-LEVEL
NC
GND
GND
GND
VIDEO IN



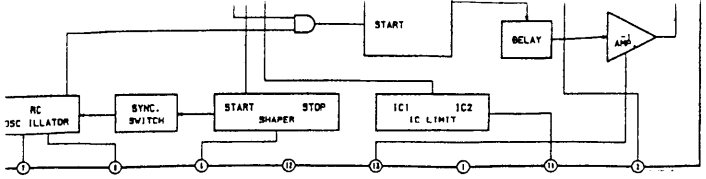


· WAVEFORMS D BOARD

① 1.0 Vp-p(H)	② 2.5 Vp-p(V)	③ 4.8 Vp-p(V)
④ 3.0 Vp-p(V)	⑤ 4.5 Vp-p(H)	⑥ 9.0 Vp-p(H)
⑦ 12.0Vp-p(H)	⑧ 3.4 Vp-p(H)	⑨ 0.1 Vp-p(503KHz)
⑩ 1.1 Vp-p(H)	⑪ 0.7Vp-p(V)	⑫ 3.0 Vp-p(V)
⑬ 29.0Vp-p(V)	⑭ 28.0Vp-p(V)	⑮ 3.4 Vp-p(H)
⑯ 230 Vp-p(H)	⑰ 16.0Vp-p(H)	⑱ 900 Vp-p(H)
⑲ 260Vp-p (H)	⑳ 8.0Vp-p (V)	㉑ 48.0Vp-p (V)
㉒ 1.4Vp-p (H)	㉓ 4.0 Vp-p(12MHz)	

D BOARD ＊MARK

	25 INCH	29 INCH		25 INCH
C519	0.47	0.33	JW206	○
C526	27P	22P	JW207	○
C815	1 200V	0.82 200V	JW216	○
C817	0.015 1.4KV	0.017 1.4KV	JW229	○
C821	680P 2KV	470P 2KV		
			L801	–
D-88	–	3P		
			R525	1K
D506	DA204K	–	R561	–
D514	JW	1SS133	R570	–
D515	–	1SS133	R607	4.7K
			R631	27K
JW202	–	○	R812	68K 1/2W
JW203	○	–	R5503	4.7
JW204	○	–	R5506	–
JW205	–	○		



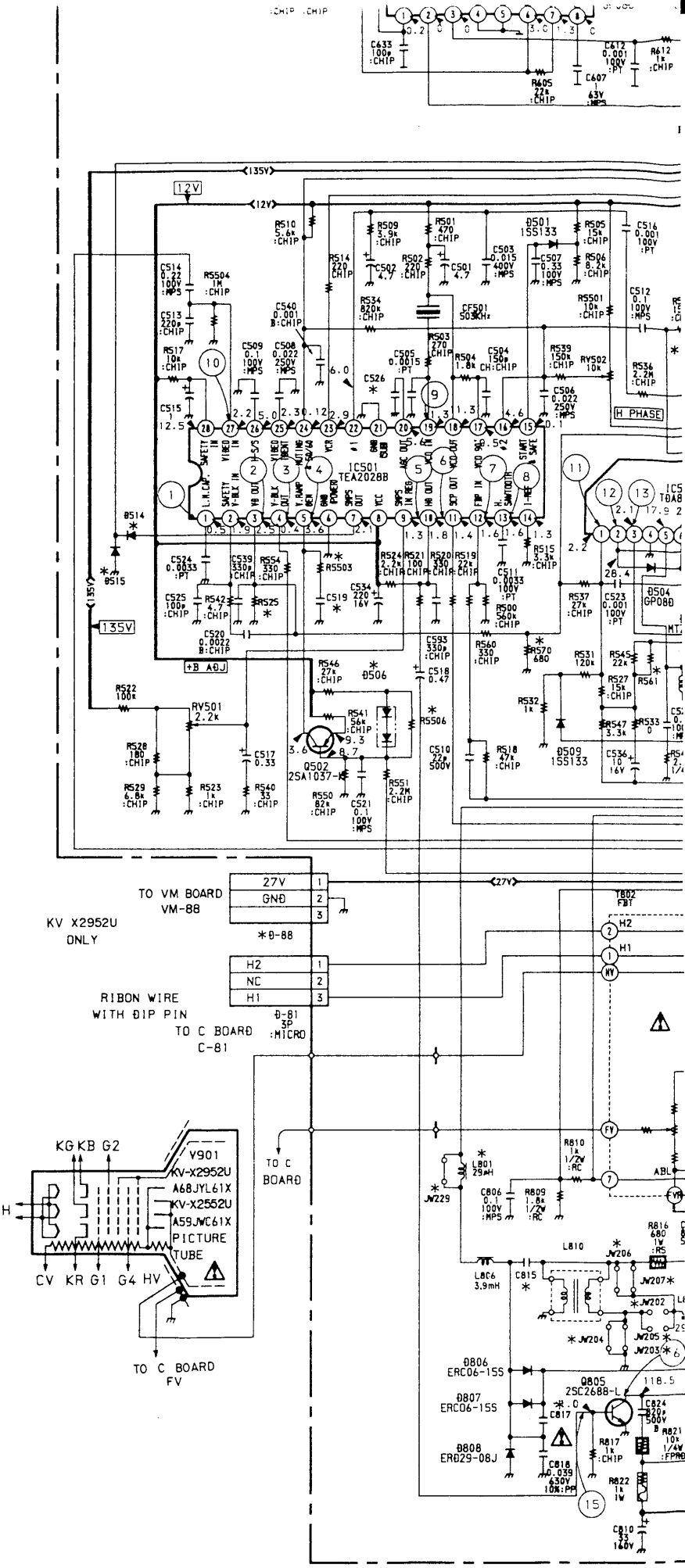
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	2SD1548	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD2096	+12V REG
Q608	2SC2412-K	STBY SW
Q609	2SD789	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	2SD1941-06	H OUT
Q805	2SC2688-L	H DRIVER
D001	MTZJ-6.8C	PROTECT
D002	MTZJ-6.8C	PROTECT
D003	1SS133	HUE CTL
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC VOLTAGE REGULATION
D007	MTZJ3.9B	PLOT RESET
D009	MTZJ5.6B	CLIPPING SYNC LEVEL
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLTAGE DETECT
D272	1SS133	DECOUPLING MUTE AUDIO
D501	1SS133	START
D504	GP08DPKG23	V PULSE OUT
D506	DA204K	CURRENT
D508	1SS133	CANAL +BLK LEVEL
D509	1SS133	V LIN
D511	GP08DPKG23	PROT
D512	GP08DPKG23	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT
D515	1SS133	PROT
D601	D4SB60L-F	AC RECT
D602	RGP10GPKG23	REF RECT
D603	GP08DPKG23	SMPS DRIVE 1
D604	GP08DPKG23	SMPS DRIVE 2
D605	GP08DPKG23	SMPS DRIVE 3
D606	RGP10GPKG23	+12V RECT
D607	RGP10GPKG23	REF RECT
D608	ERC25-06S	PULSE CLIPPER
D609	MTZJ33A	FAST ON/OFF-1
D610	CTU-12S	+14V RECT
D611	ERD29-08J	+B5V RECT
D612	CTU-12S	+7V RECT
D613	RGP15J	AFV RECT-1
D614	RGP15J	AFV RECT-2
D616	MTZJ6.2B	+12V REF
D617	1SS133	PROT
D618	MTZJ5.6B	+12V REF
D619	MTZJ33A	FAST ON/OFF-2
D620	DA204K	+12V REF
D621	MTZJ33A	FAST ON/OFF-3
D622	1SS133	PROT
D623	1SS133	DECOUPLING STBY
D624	1SS133	DECOUPLING STBY
D630	MTZJ15A	+12V REF
D801	RGP10G	+27V RECT
D802	RGP10G	+200V RECT
D803	RGP02-17	G2 RECT
D804	GP08D	H CENTER-1
D805	GP08D	H CENTER-2
D806	ERC06-15S	H DAMPER-1
D807	ERC06-15S	H DAMPER-2
D808	ERC29-08J	PIN DAMPER

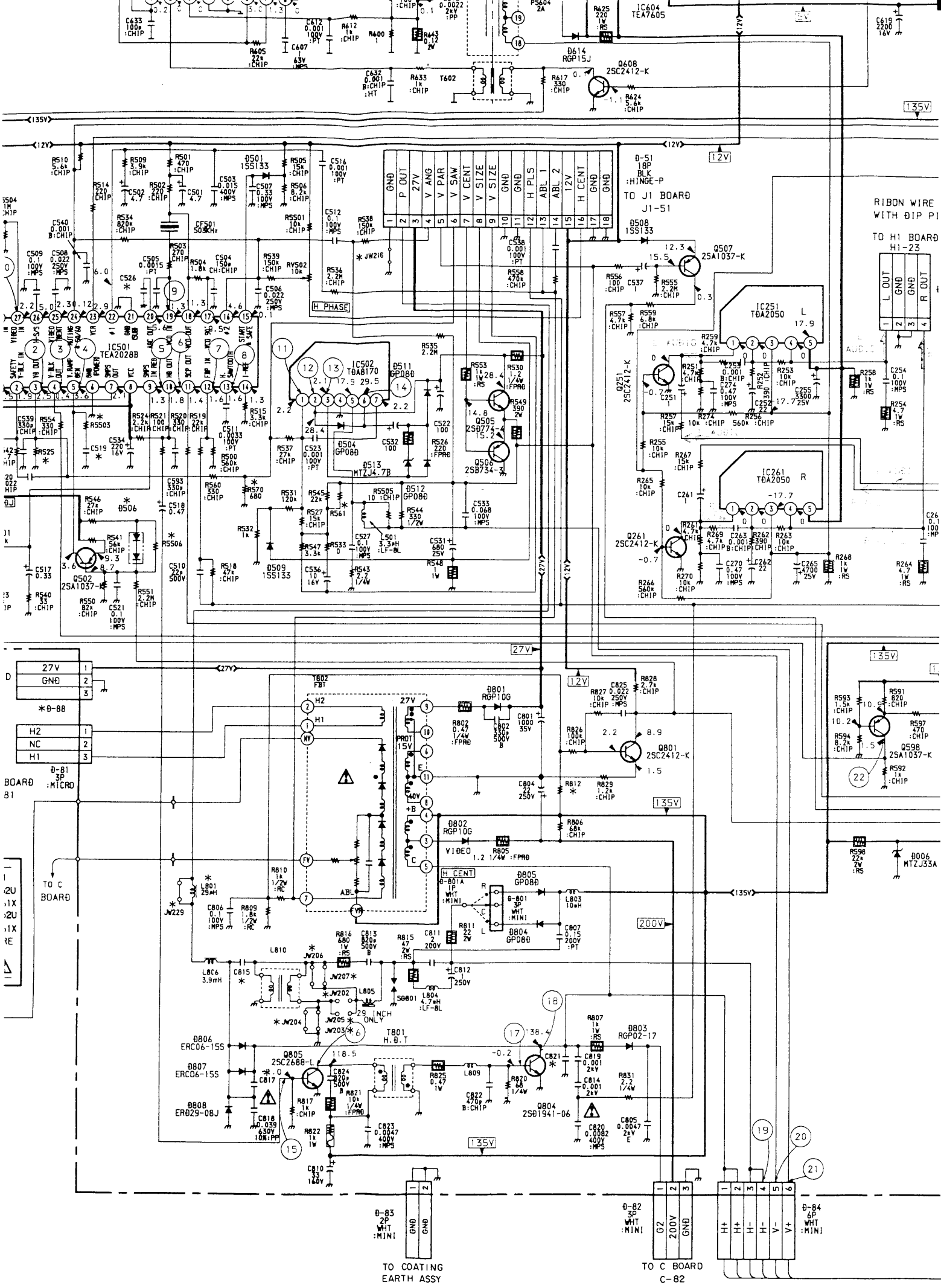
ARK

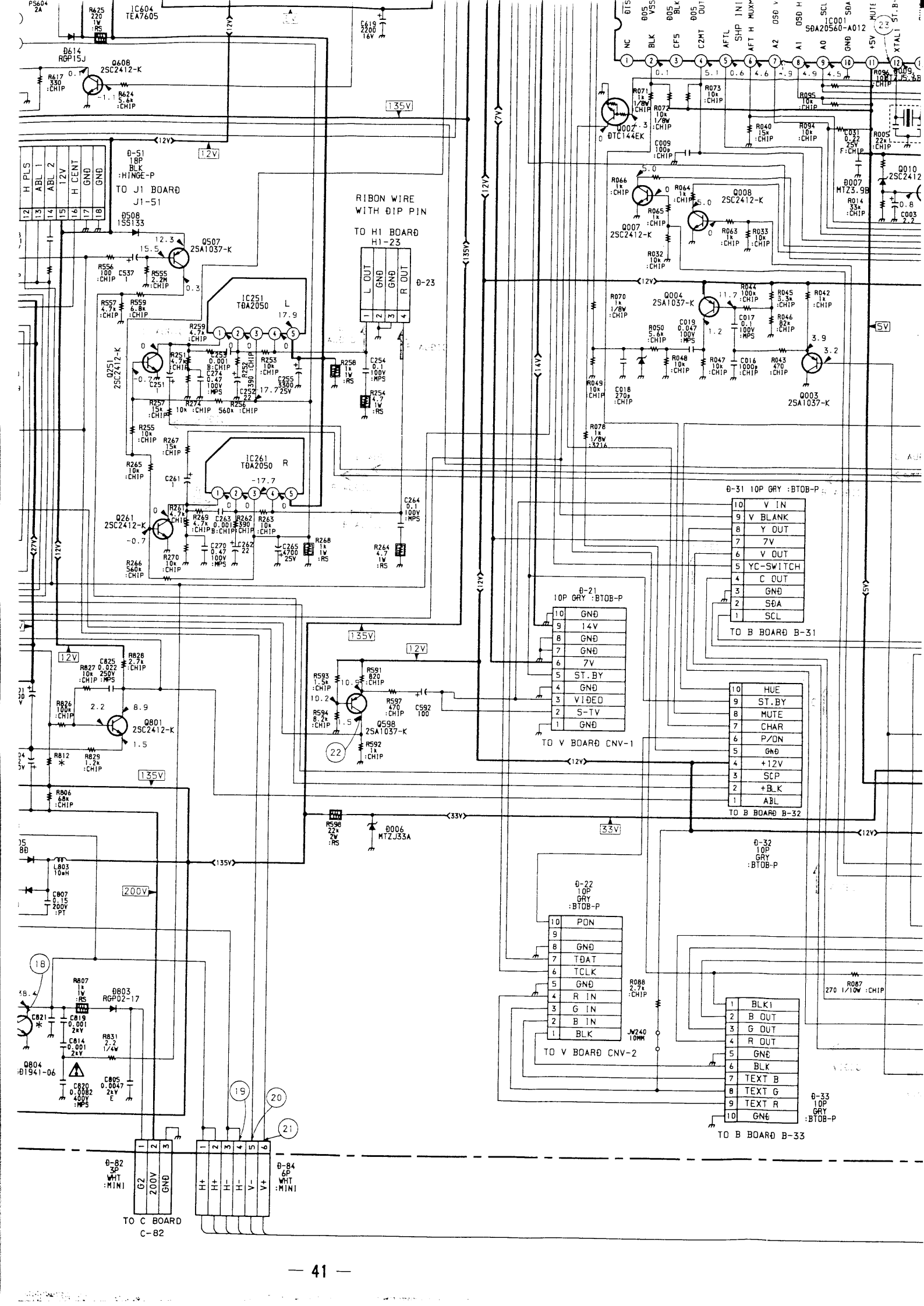
NCH	29 INCH		25 INCH	29 INCH
.47	0.33	JW206	○	–
7P	22P	JW207	○	–
200V	0.82 200V	JW216	○	–
1.4KV	0.017 1.4KV	JW229	○	–
2KV	470P 2KV			
		L801	–	3.9mH
–	3P			
		R525	1K	–
204K	–	R561	–	270K
JW	1SS133	R570	–	680
–	1SS133	R607	4.7K	5.6K
		R631	27K	–
–	○	R812	68K 1/2W	51K 1/2W
○	–	R5503	4.7	10
○	–	R5506	–	12K
–	○			

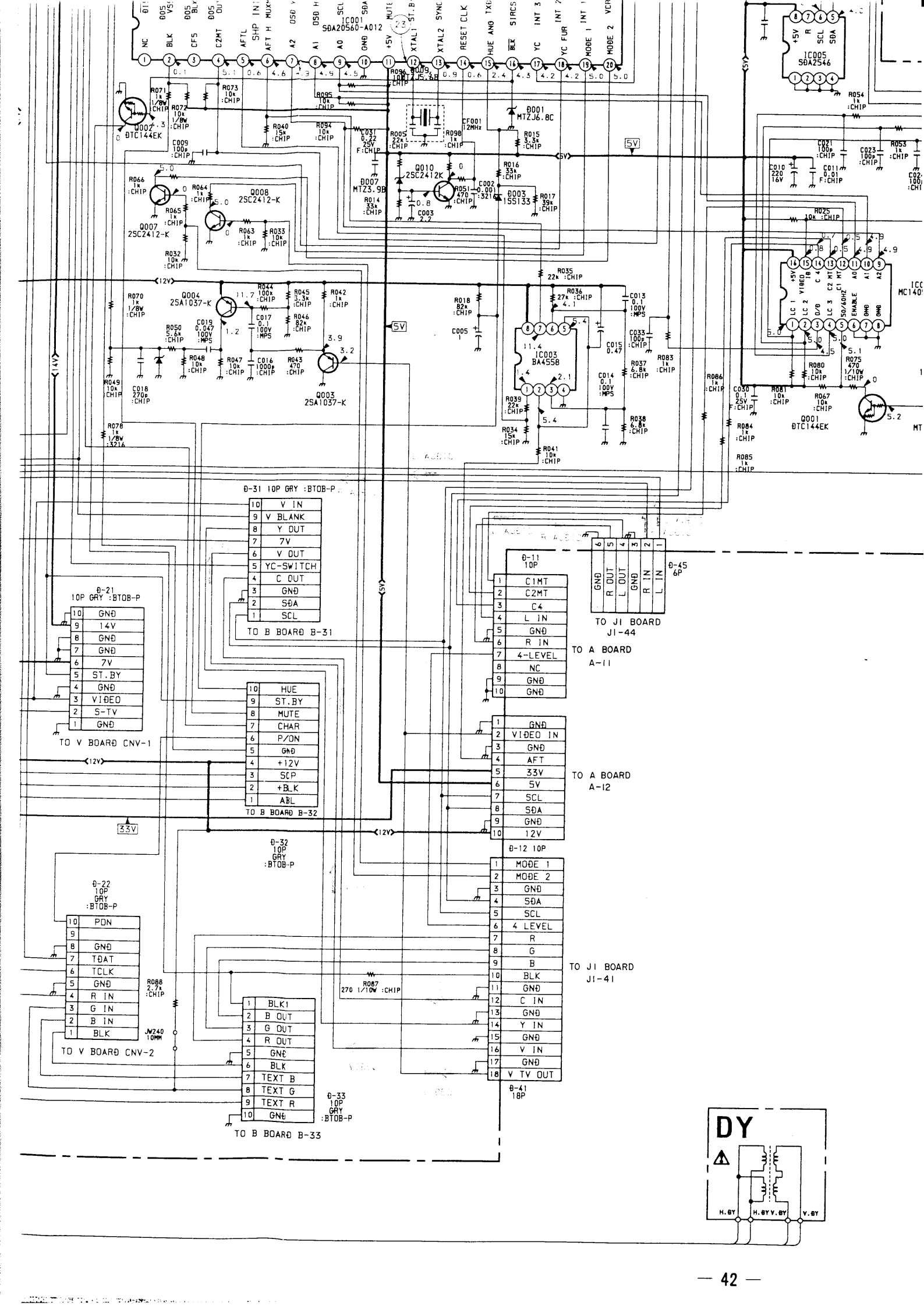
– : NOT MOUNTED

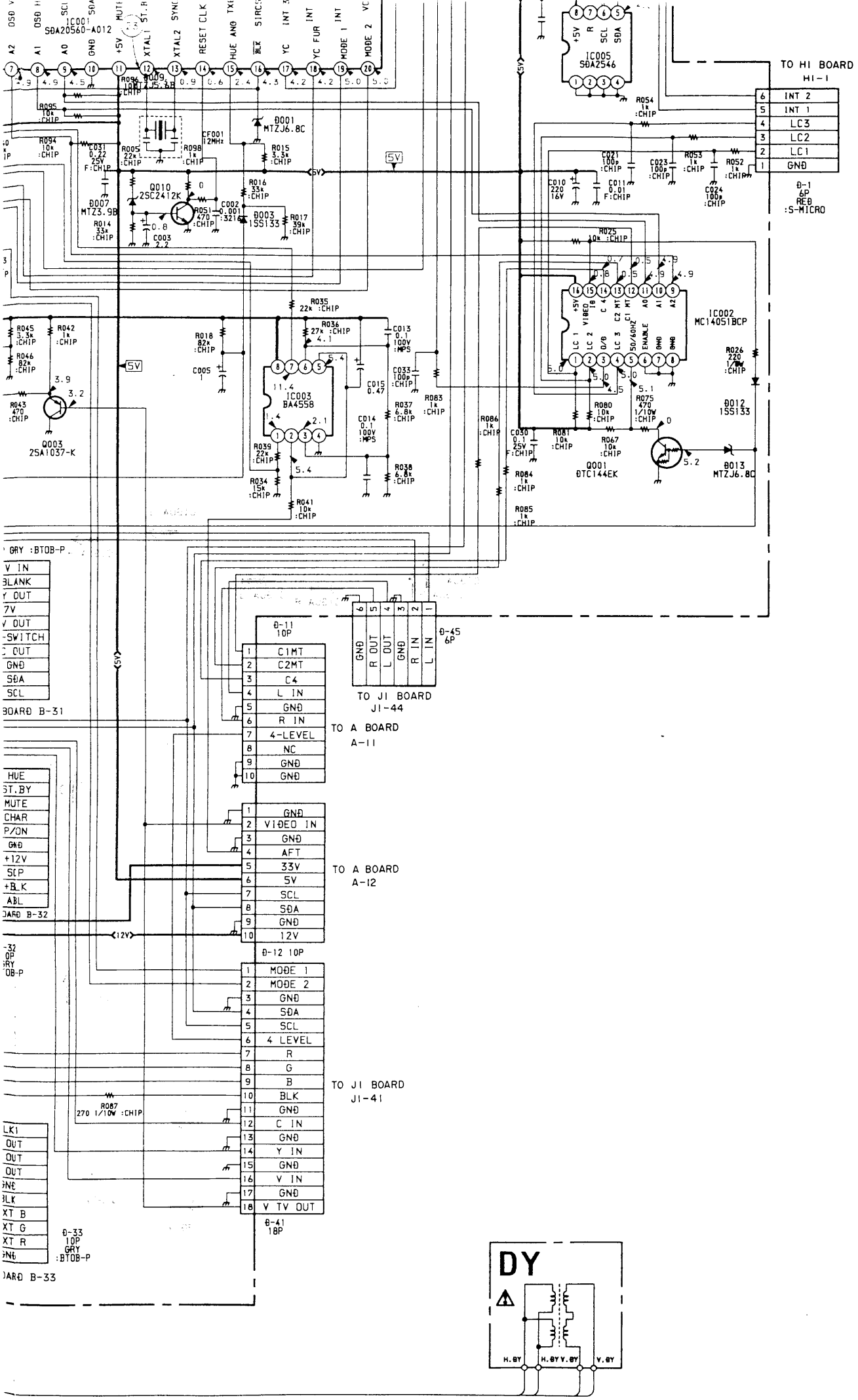
1037-K	CANAL +BLK
1037-K	VIDEO AMP
1357T114EF	STBY SW
1548	RES OUT
1357T114EF	STBY SW
1037-K	FAST ON/OFF
2412-K	STBY SW
2412-K	STBY SW
2096	+12V REG
2412-K	STBY SW
789	STBY SW
2412-K	ABL AMP
1941-06	H OUT
2688-L	H DRIVER
ZJ-6.8C	PROTECT
ZJ-6.8C	PROTECT
133	HUE CTL
ZJ5.6B	PROT
ZJ33A	VC VOLTAGE REGULATION
ZJ3.9B	PLOT RESET
ZJ5.6B	CLIPPING SYNC LEVEL
ZJ6.2B	PROT
ZJ6.2B	PROT
133	PROT
ZJ6.8C	PROT
ZJ13B	VOLTAGE DETECT
133	DECOUPLING MUTE AUDIO
133	START
8DPKG23	V PULSE OUT
04K	CURRENT
133	CANAL +BLK LEVEL
133	V LIN
8DPKG23	PROT
8DPKG23	PROT
ZJ4.7B	PROT
133	PROT
133	PROT
B60L-F	AC RECT
10GPKG23	REF RECT
8DPKG23	SMPS DRIVE 1
8DPKG23	SMPS DRIVE 2
8DPKG23	SMPS DRIVE 3
10GPKG23	+12V RECT
10GPKG23	REF RECT
25-06S	PULSE CLIPPER
ZJ33A	FAST ON/OFF-1
-12S	+11V RECT
29-08J	+B5V RECT
-12S	+7V RECT
15J	AFV RECT-1
15J	AFV RECT-2
ZJ6.2B	+12V REF
133	PROT
ZJ5.6B	+12V REF
ZJ33A	FAST ON/OFF-2
04K	+12V REF
ZJ33A	FAST ON/OFF-3
133	PROT
133	DCOUPLING STBY
133	DCOUPLING STBY
ZJ15A	+2V REF
10G	+27V RECT
10G	+200V RECT
02-17	G RECT
08D	HCENTER-1
08D	HCENTER-2
06-15S	HDAMPER-1
06-15S	HDAMPER-2
29-08J	PW DAMPER

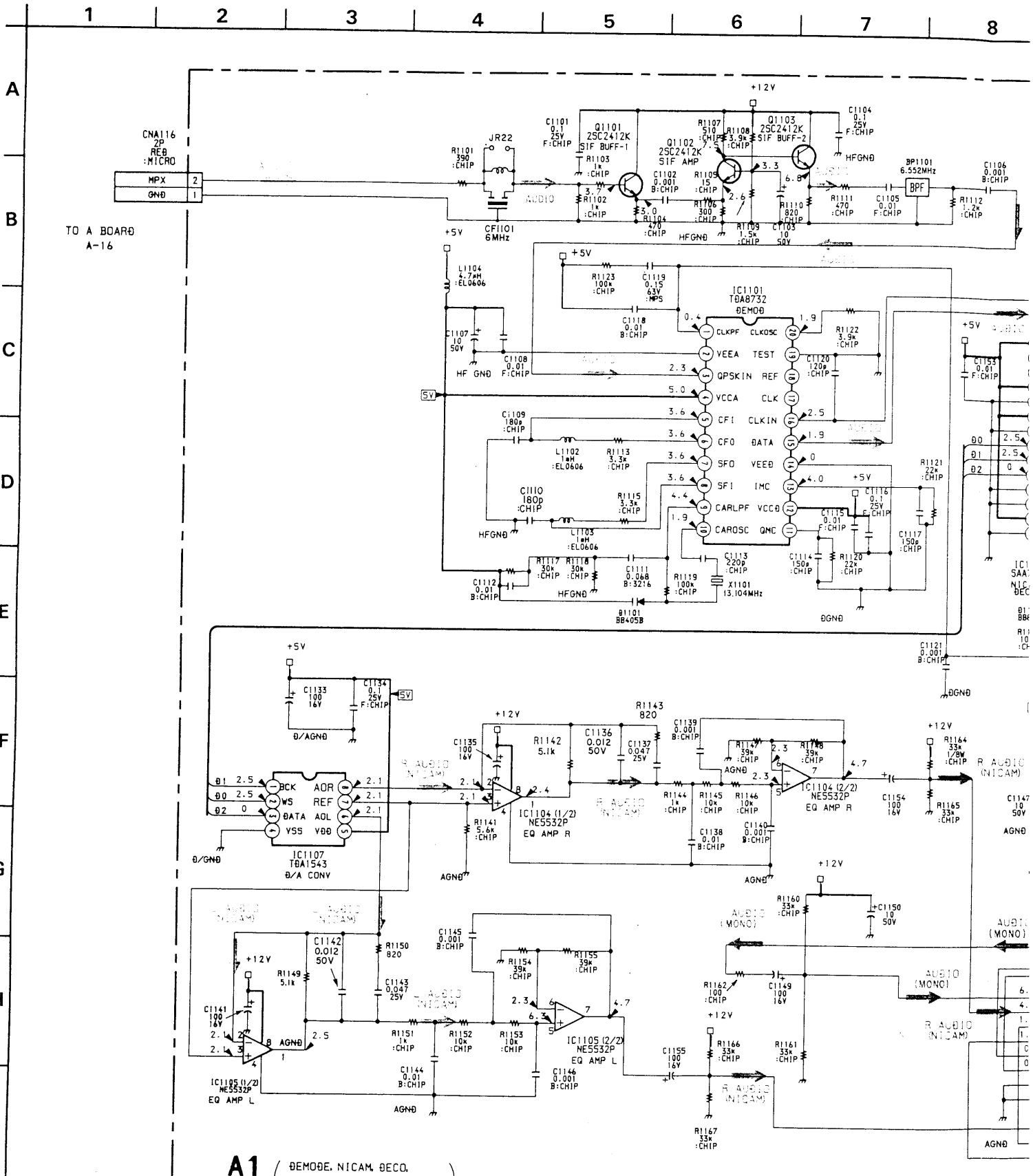


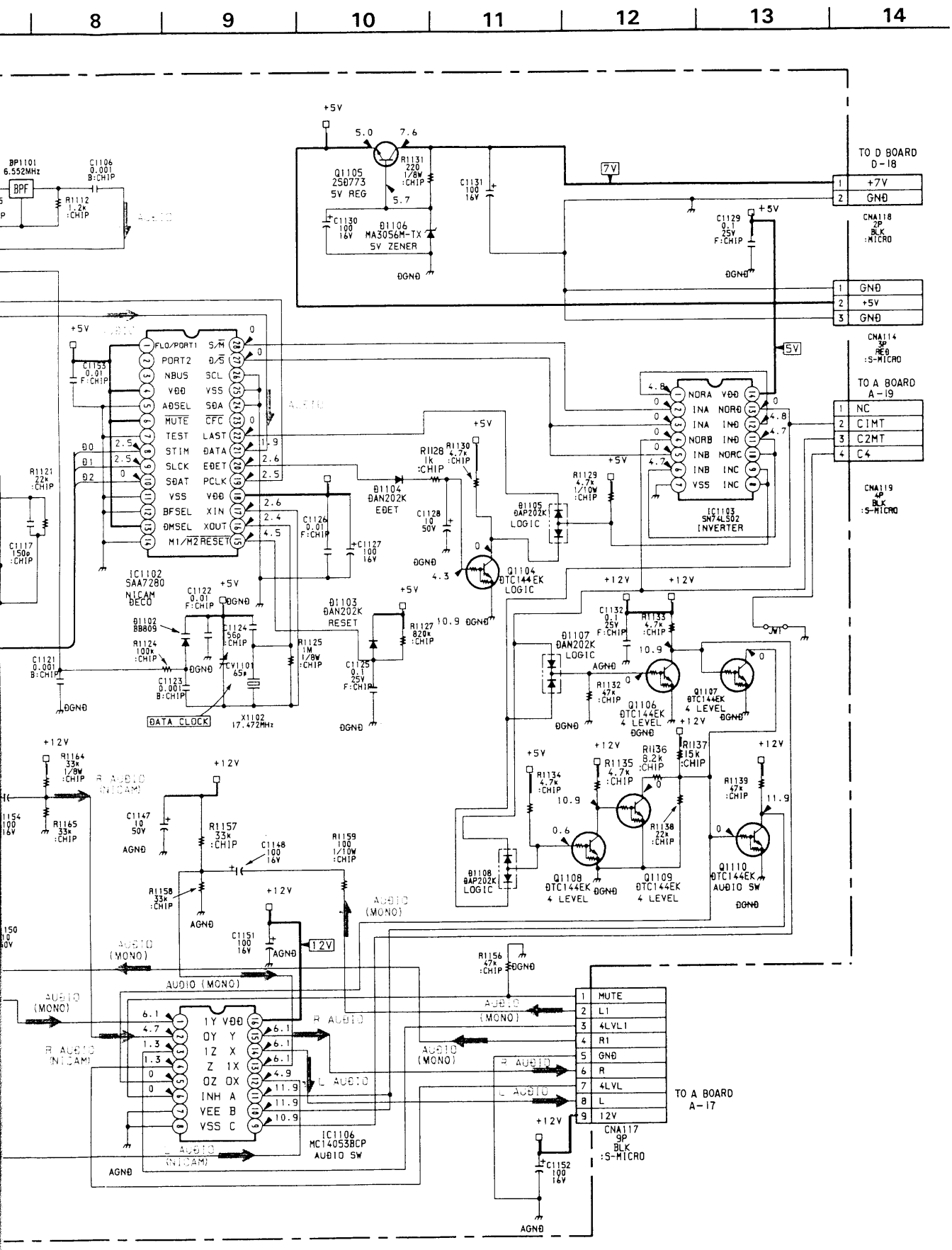

IC604
TEA7605
Q608
2SC2412-K
D614
RGP15J
T602
TO J1 BOARD
J1-51
GND
P OUT
27V
V ANG
V PAR
V SAW
V CENT
V SIZE
V SIZE
GND
GND
H PLS
ABL 1
ABL 2
12V
H CENT
GND
GND
RIBON WIRE
WITH DIP PI
TO H1 BOARD
H1-23
L OUT
GND
GND
R OUT
IC501
TEA2028B
IC502
TDA8170
IC251
TDA2050 L
IC261
TDA2050 R
Q507
2SA1037-K
Q505
2SD774-K
Q506
2SB734-3
Q251
2SC2412-K
Q261
2SC2412-K
Q502
2SA1037-K
D513
MTZJ4.7B
H PHASE
JW216
CF501
503KHz
27V
GND
H2
NC
H1
TO C
BOARD
T802
FBT
D801
RGP10G
D802
RGP10G
Q801
2SC2412-K
Q598
2SA1037-K
D006
MTZJ33A
H CENT
VIDEO
ABL
PROT
15V
40V
+B
E
C
FY
VR
JW229
JW206
JW207
JW202
JW205
JW204
JW203
29 INCH
ONLY
T801
H.D.T
Q805
2SC2688-L
Q804
2SD1941-06
D803
RGP02-17
D806
ERC06-15S
D807
ERC06-15S
D808
ER029-08J
S6801
135V
200V
12V
D-83
2P
WHT
:MINI
GND
GND
TO COATING
EARTH ASSY
D-82
3P
WHT
:MINI
G2
200V
GND
TO C BOARD
C-82
D-84
6P
WHT
:MINI
H+
H+
H-
H-
V-
V+

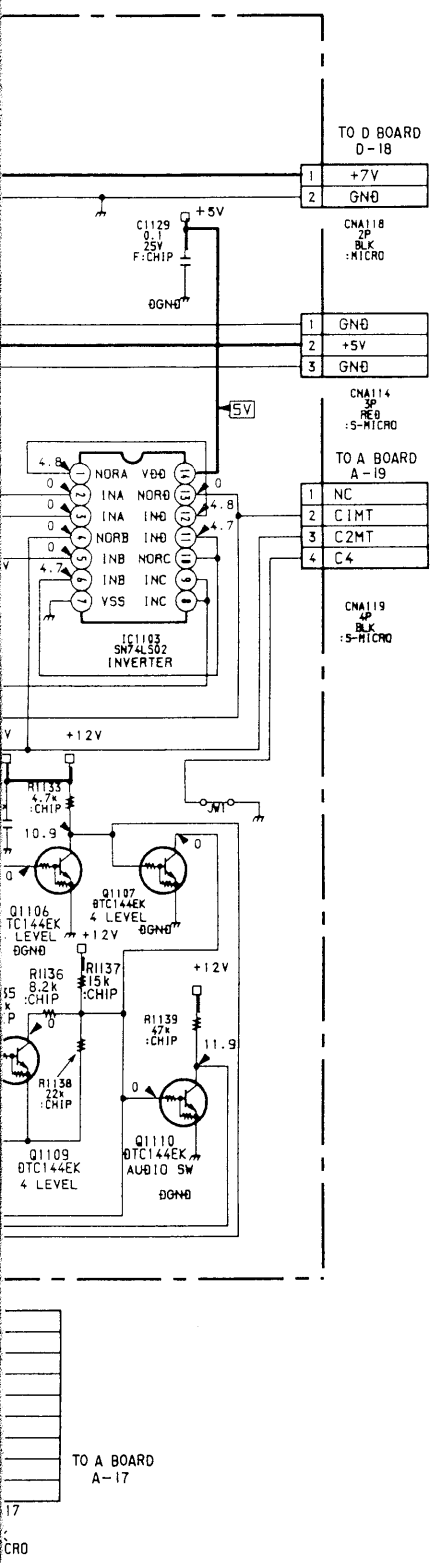

IC604 TEA7605
IC001 SDA20560-A012
Q608 2SC2412-K
Q614 RGP15J
Q507 2SA1037-K
Q508 1SS133
IC251 T0A2050
IC261 T0A2050
Q251 2SC2412-K
Q261 2SC2412-K
Q801 2SC2412-K
Q598 2SA1037-K
Q002 DTC144EK
Q007 2SC2412-K
Q008 2SC2412-K
Q004 2SA1037-K
Q003 2SA1037-K
Q010 2SC2412
Q804 D1941-06
D006 MTZJ33A
D007 MTZ3.9B
D803 RGP02-17
TO J1 BOARD J1-51
RIBON WIRE WITH DIP PIN
TO H1 BOARD H1-23
TO B BOARD B-31
TO V BOARD CNV-1
TO B BOARD B-32
TO V BOARD CNV-2
TO B BOARD B-33
TO C BOARD C-82
135V
12V
5V
33V
200V
14V
7V


IC001 SDA20560-A012
IC005 SDA2546
IC003 BA4558
IC MC140
Q001 DTC144EK
Q003 2SA1037-K
Q004 2SA1037-K
Q007 2SC2412-K
Q008 2SC2412-K
Q010 2SC2412K
D001 MTZJ6.8C
D003 1SS133
D007 MTZ3.9B
CF001 12MHz
Θ-31 10P GRY :BTOB-P
V IN
V BLANK
Y OUT
7V
V OUT
YC-SWITCH
C OUT
GNΘ
SΘA
SCL
TO B BOARΘ B-31
Θ-21 10P GRY :BTOB-P
GNΘ
14V
GNΘ
GNΘ
7V
ST.BY
GNΘ
VIΘΕΟ
S-TV
GNΘ
TO V BOARΘ CNV-1
HUE
ST.BY
MUTE
CHAR
P/ON
GNΘ
+12V
SCP
+BLK
ABL
TO B BOARΘ B-32
Θ-32 10P GRY :BTOB-P
Θ-22 10P GRY :BTOB-P
PON
GNΘ
TΘAT
TCLK
GNΘ
R IN
G IN
B IN
BLK
TO V BOARΘ CNV-2
BLK1
B OUT
G OUT
R OUT
GNΘ
BLK
TEXT B
TEXT G
TEXT R
GNΘ
TO B BOARΘ B-33
Θ-33 10P GRY :BTOB-P
Θ-11 10P
C1MT
C2MT
C4
L IN
GNΘ
R IN
4-LEVEL
NC
GNΘ
GNΘ
TO A BOARΘ A-11
GNΘ
VIΘΕΟ IN
GNΘ
AFT
33V
5V
SCL
SΘA
GNΘ
12V
TO A BOARΘ A-12
Θ-12 10P
MΘΘE 1
MΘΘE 2
GNΘ
SΘA
SCL
4 LEVEL
R
G
B
BLK
GNΘ
C IN
GNΘ
Y IN
GNΘ
V IN
GNΘ
V TV OUT
TO JI BOARΘ JI-41
Θ-41 18P
Θ-45 6P
GNΘ
R OUT
L OUT
GNΘ
R IN
L IN
TO JI BOARΘ JI-44
DY
H.ΘY
H.ΘY V.ΘY
V.ΘY

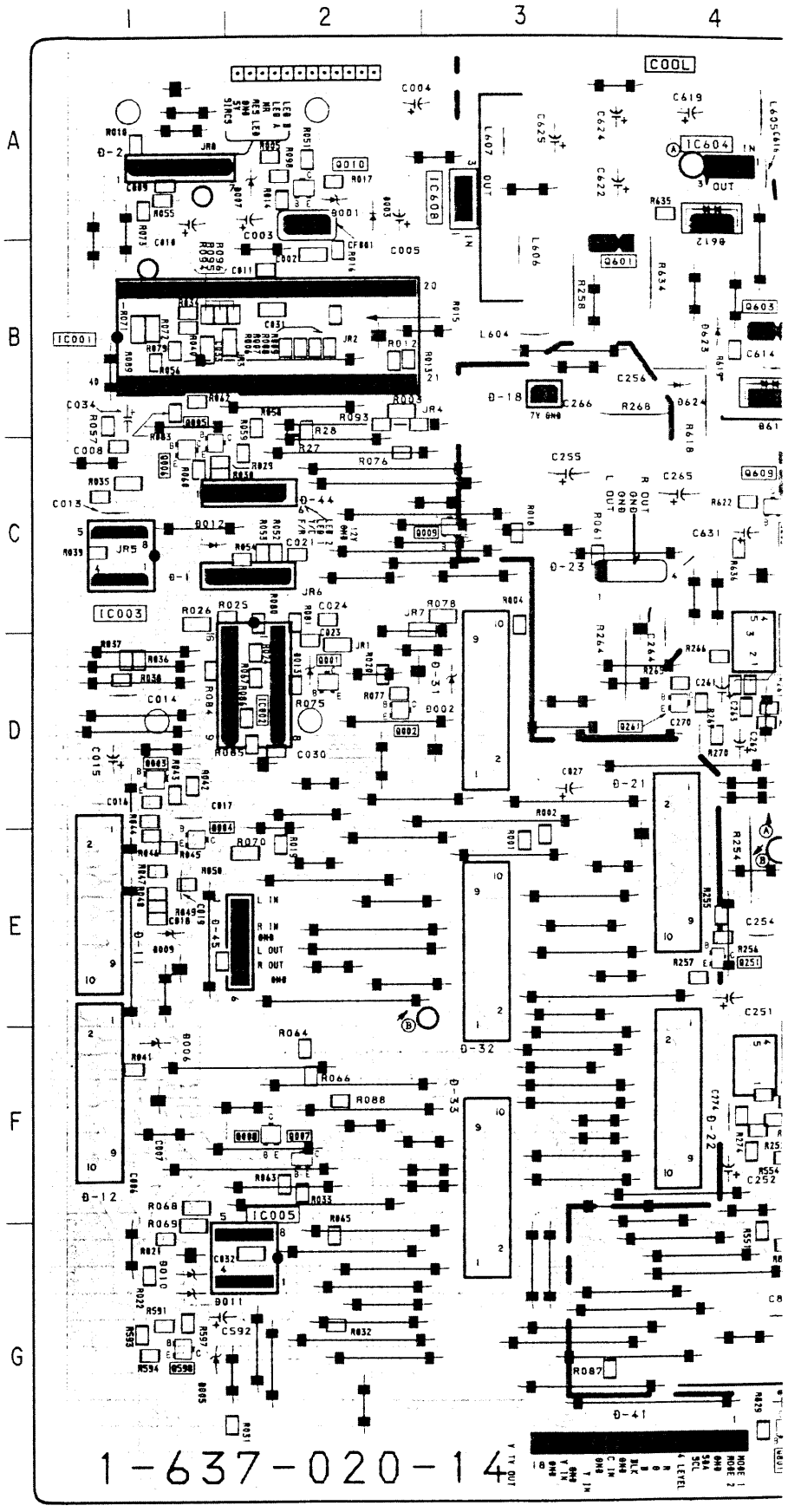

IC001
SØA20560-A012
IC005
SØA2546
TO HI BOARD
HI-1
INT 2
INT 1
LC3
LC2
LC1
GNØ
Ø-1
6P
REØ
:S-MICRO
IC002
MC14051BCP
IC003
BA4558
Q003
2SA1037-K
Q010
2SC2412K
Q001
ØTC144EK
ØØ1
MTZJ6.8C
ØØ7
MTZ3.9B
ØØ3
1SS133
ØØ12
1SS133
ØØ13
MTZJ6.8C
CF001
12MHz
Ø-11
10P
C1MT
C2MT
C4
L IN
GNØ
R IN
4-LEVEL
NC
GNØ
GNØ
TO A BOARD
A-11
GNØ
VIØEO IN
GNØ
AFT
33V
5V
SCL
SØA
GNØ
12V
TO A BOARD
A-12
Ø-12 10P
MØDE 1
MØDE 2
GNØ
SØA
SCL
4 LEVEL
R
G
B
BLK
GNØ
C IN
GNØ
Y IN
GNØ
V IN
GNØ
V TV OUT
Ø-41
18P
TO JI BOARD
JI-41
Ø-45
6P
GNØ
R OUT
L OUT
GNØ
R IN
L IN
TO JI BOARD
JI-44
Ø-33
10P
GRY
:BTOB-P
DY
H.ØY
H.ØY V.ØY
V.ØY


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
CNA116
2P
RE0
:MICRO
MPX
GND
TO A BOARD
A-16
JR22
CF1101
6MHz
AUDIO
+12V
+5V
Q1101
2SC2412K
SIF BUFF-1
Q1102
2SC2412K
SIF AMP
Q1103
2SC2412K
SIF BUFF-2
HFGND
BP1101
6.552MHz
BPF
IC1101
T0A8732
0EM00
CLKPF
CLKOSC
VEEA
TEST
QPSKIN
REF
VCCA
CLK
CFI
CLKIN
CFO
0ATA
SFO
VEE0
SFI
IMC
CARLPF
VCC0
CAROSC
QMC
X1101
13.104MHz
B1101
BB405B
0GND
HF GND
IC1107
T0A1543
0/A CONV
0/AGND
IC1104 (1/2)
NE5532P
EQ AMP R
IC1104 (2/2)
NE5532P
EQ AMP R
IC1105 (1/2)
NE5532P
EQ AMP L
IC1105 (2/2)
NE5532P
EQ AMP L
AGND
R AUDIO (NICAM)
AUDIO (MONO)
A1
(0EM00E, NICAM, 0ECO,
INVERTER, 0/A CONV,
EQ AMP L.R, AU0IO SW,)


8
9
10
11
12
13
14
A
B
C
D
E
F
G
+5V
Q1105 2SD773 5V REG
R1131 220 1/8W :CHIP
C1131 100 16V
D1106 MA3056M-TX 5V ZENER
C1130 100 16V
7V
TO D BOARD D-18
+7V
GND
CNA118 2P BLK :MICRO
C1129 0.1 25V F:CHIP
GND
CNA114 3P RED :S-MICRO
TO A BOARD A-19
NC
C1MT
C2MT
C4
CNA119 4P BLK :S-MICRO
IC1103 SN74LS02 INVERTER
NORA VDD
INA NORB
INA IND
NORB IND
INB NORC
INB INC
VSS INC
IC1102 SAA7280 NICAM DECO
FLO/PORT1 S/M
PORT2 D/S
NBUS SCL
VDD VSS
ADSEL SDA
MUTE CFC
TEST LAST
STIM DATA
SLCK EDET
SDAT PCLK
VSS VDD
BFSEL XIN
DMSEL XOUT
M1/M2 RESET
C1153 0.01 F:CHIP
C1126 0.01 F:CHIP
C1127 100 16V
C1128 10 50V
D1104 DAN202K EDET
R1128 1K :CHIP
R1130 4.7K :CHIP
D1105 DAP202K LOGIC
R1129 4.7K 1/10W :CHIP
Q1104 DTC144EK LOGIC
D1103 DAN202K RESET
R1127 820K :CHIP
C1122 0.01 F:CHIP
D1102 BB809
R1124 100K :CHIP
C1124 560 :CHIP
R1125 1M 1/8W :CHIP
C1123 0.001 B:CHIP
CV1101 65P
X1102 17.472MHz
DATA CLOCK
C1121 0.001 B:CHIP
R1121 22K :CHIP
C1117 150P :CHIP
C1132 0.1 25V F:CHIP
R1133 4.7K :CHIP
D1107 DAN202K LOGIC
R1132 47K :CHIP
Q1106 DTC144EK 4 LEVEL
Q1107 DTC144EK 4 LEVEL
JW1
R1134 4.7K :CHIP
R1135 4.7K :CHIP
R1136 8.2K :CHIP
R1137 15K :CHIP
R1138 22K :CHIP
R1139 47K :CHIP
D1108 DAP202K LOGIC
Q1108 DTC144EK 4 LEVEL
Q1109 DTC144EK 4 LEVEL
Q1110 DTC144EK AUDIO SW
R1164 33K 1/8W :CHIP
R1165 33K :CHIP
R1154 100 16V
R1157 33K :CHIP
C1147 10 50V
C1148 100 16V
R1159 100 1/10W :CHIP
R1158 33K :CHIP
C1151 100 16V
12V
R1156 47K :CHIP
R AUDIO (NICAM)
L AUDIO (NICAM)
AUDIO (MONO)
IC1106 MC14053BCP AUDIO SW
1Y VDD
OY Y
1Z X
Z 1X
OZ OX
INH A
VEE B
VSS C
MUTE
L1
4LVL1
R1
GND
R
4LVL
L
12V
CNA117 9P BLK :S-MICRO
TO A BOARD A-17
C1152 100 16V
AGND
DGND


TO D BOARD
D-18
1 +7V
2 GND
CNA118
2P
BLK
:MICRO
C1129
0.1
25V
F:CHIP
+5V
GND
1 GND
2 +5V
3 GND
CNA114
3P
RED
:5-MICRO
5V
TO A BOARD
A-19
1 NC
2 C1MT
3 C2MT
4 C4
CNA119
4P
BLK
:5-MICRO
IC1103
SN74LS02
INVERTER
NORA VDD
INA NORB
INA INB
NORB INC
INB NORC
INC
VSS
+12V
R1135
4.7k
:CHIP
Q1106
TC144EK
LEVEL
Q1107
DTC144EK
4 LEVEL
R1136
8.2k
:CHIP
R1137
15k
:CHIP
R1139
47k
:CHIP
R1138
22k
:CHIP
Q1109
DTC144EK
4 LEVEL
Q1110
DTC144EK
AUDIO SW
TO A BOARD
A-17

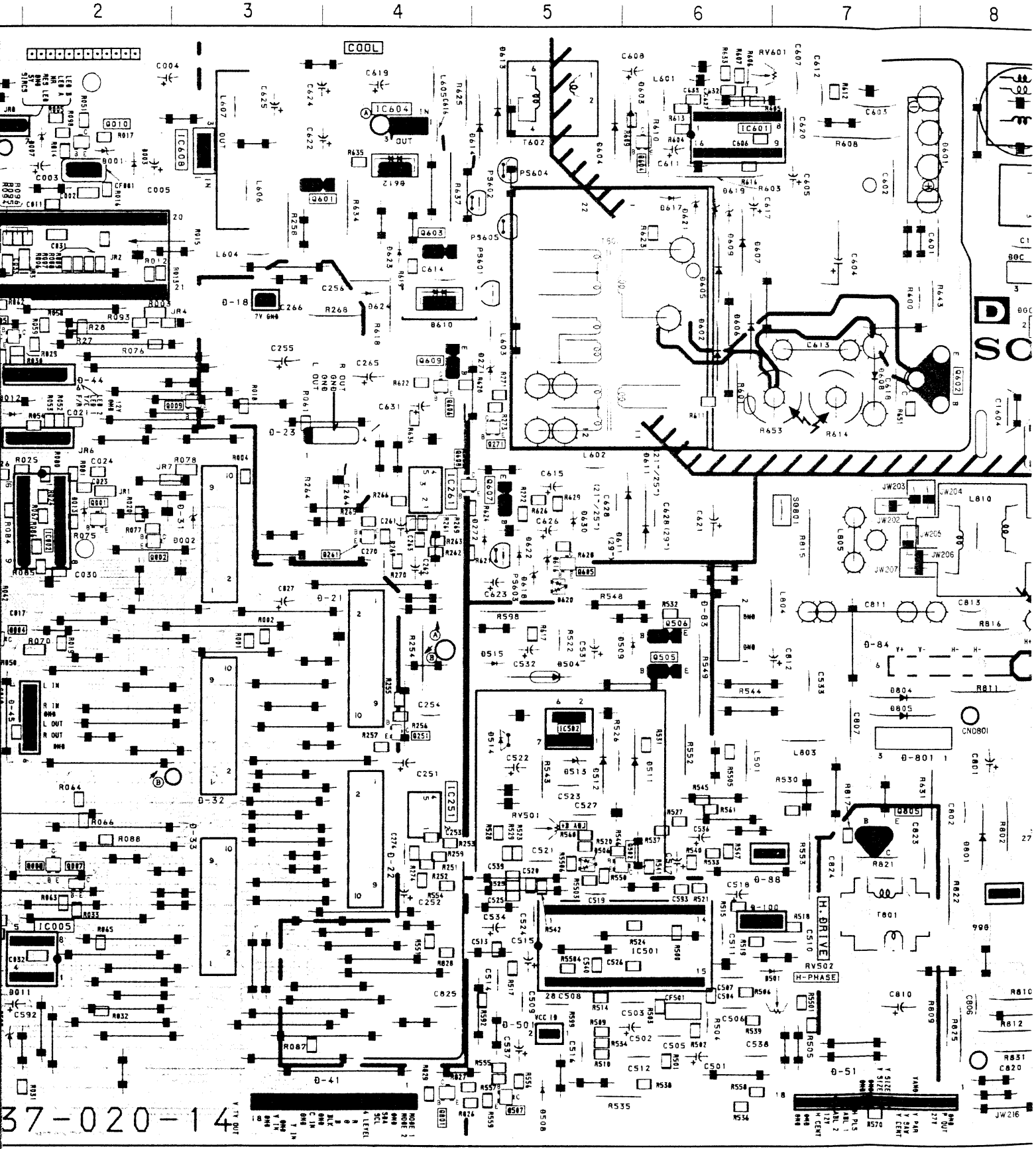
—D Board—

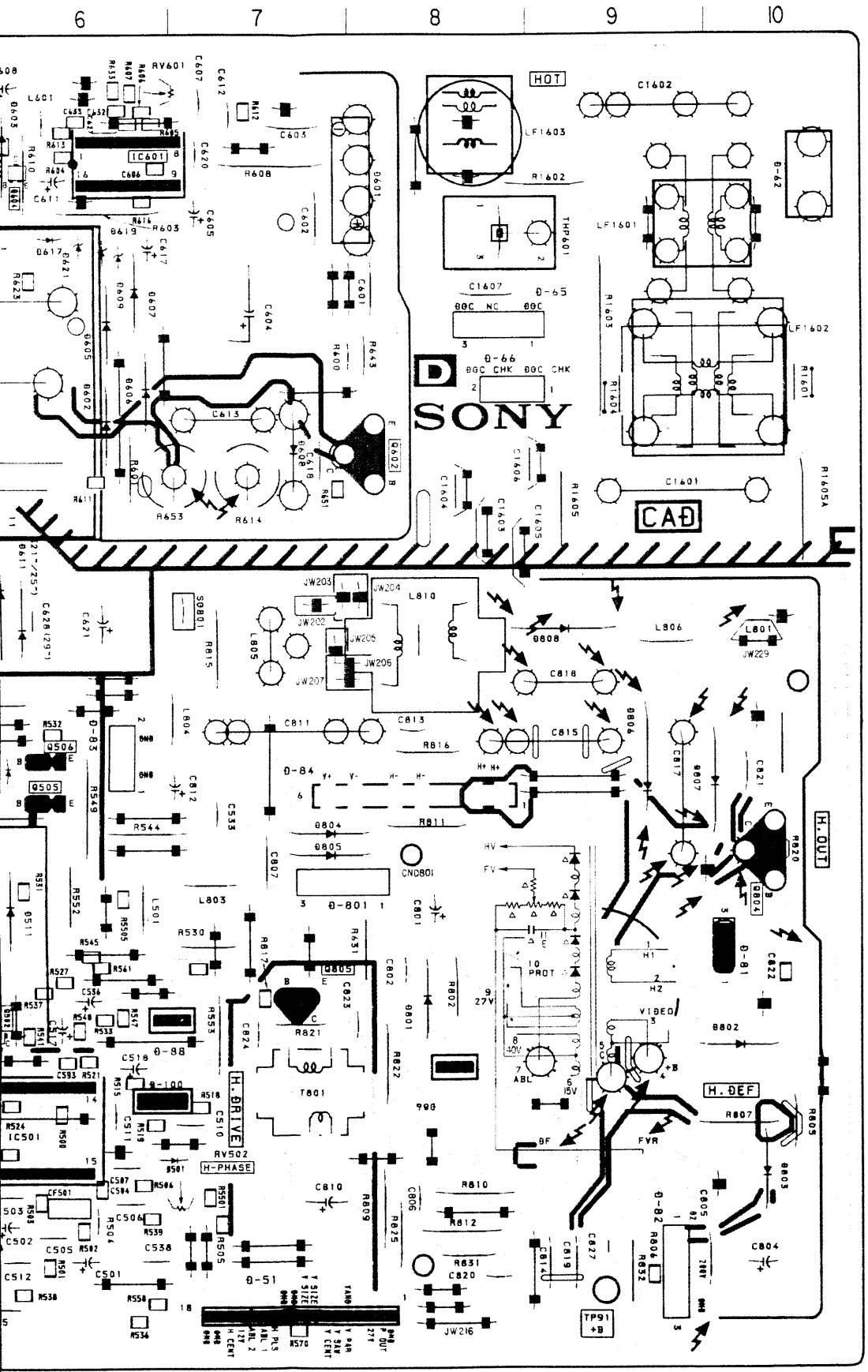

1 2 3 4
A
B
C
D
E
F
G
COOL
IC604
IC608
IC001
IC003
IC005
Q601
Q603
Q609
Q241
L604
L605
L606
L607
D-1
D-2
D-11
D-12
D-18
D-21
D-22
D-23
D-31
D-32
D-33
D-41
D-44
D-45
1-637-020-14

CONTROL,
ONTROL.
UT, H/V OUT

A1

DEMODE, NICAN DECO,
INVERTER, D/A CONV,
EQ AMPL・R, AUDIO SW

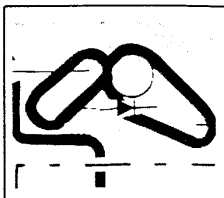




IC		TRANSISTOR		DIODE	
IC001	B-2	Q001	C-2	D001	A-2
IC002	C-2	Q002	C-2	D002	D-3
IC003	C-1	Q003	D-1	D003	A-2
IC005	G-2	Q004	D-4	D005	G-1
IC251	F-4	Q005	C-1	D006	F-1
IC261	C-4	Q006	C-1	D007	A-2
IC501	G-6	Q007	F-2	D009	E-1
IC502	E-5	Q008	F-2	D010	G-1
IC601	A-6	Q009	C-3	D011	G-1
IC604	A-4	Q010	A-2	D012	C-1
IC608	A-3	Q251	E-4	D013	D-2
		Q261	D-4	D271	C-5
		Q271	C-5	D272	D-5
		Q502	F-5	D501	G-7
		Q505	E-6	D504	E-5
		Q506	D-6	D506	F-5
		Q507	G-4	D508	G-5
		Q598	G-1	D511	E-6
		Q601	B-3	D512	E-5
		Q602	C-8	D513	E-5
		Q603	B-4	D514	E-5
		Q604	A-6	D515	E-5
		Q605	D-5	D601	A-8
		Q606	C-4	D602	C-6
		Q607	D-5	D603	A-5
		Q608	C-4	D604	A-4
		Q609	C-4	D605	B-6
		Q801	G-4	D606	B-6
		Q804	E-10	D607	B-6
		Q805	F-7	D608	C-7
				D609	B-6
				D610	B-4
				D611	D-6
				D612	A-4
				D613	A-5
				D614	A-5
				D616	D-5
				D617	B-6
				D618	D-5
				D619	B-6
				D620	D-5
				D621	B-6
				D622	D-5
				D623	B-4
				D624	B-4
				D630	D-5
				D801	F-8
				D802	F-10
				D803	G-10
				D804	E-7
				D805	E-7
				D806	E-9
				D808	D-9

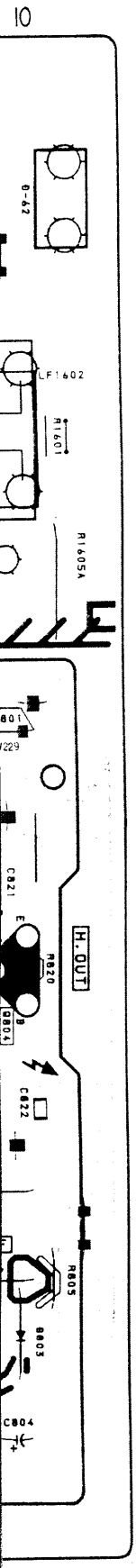
VARIABLE RESISTOR	
RV501	F-5
RV502	G-7
RV601	A-6

TP	
TP91	G-9



NOTE:
The circ
600 Vp-p
inspectio

—A1 Board—



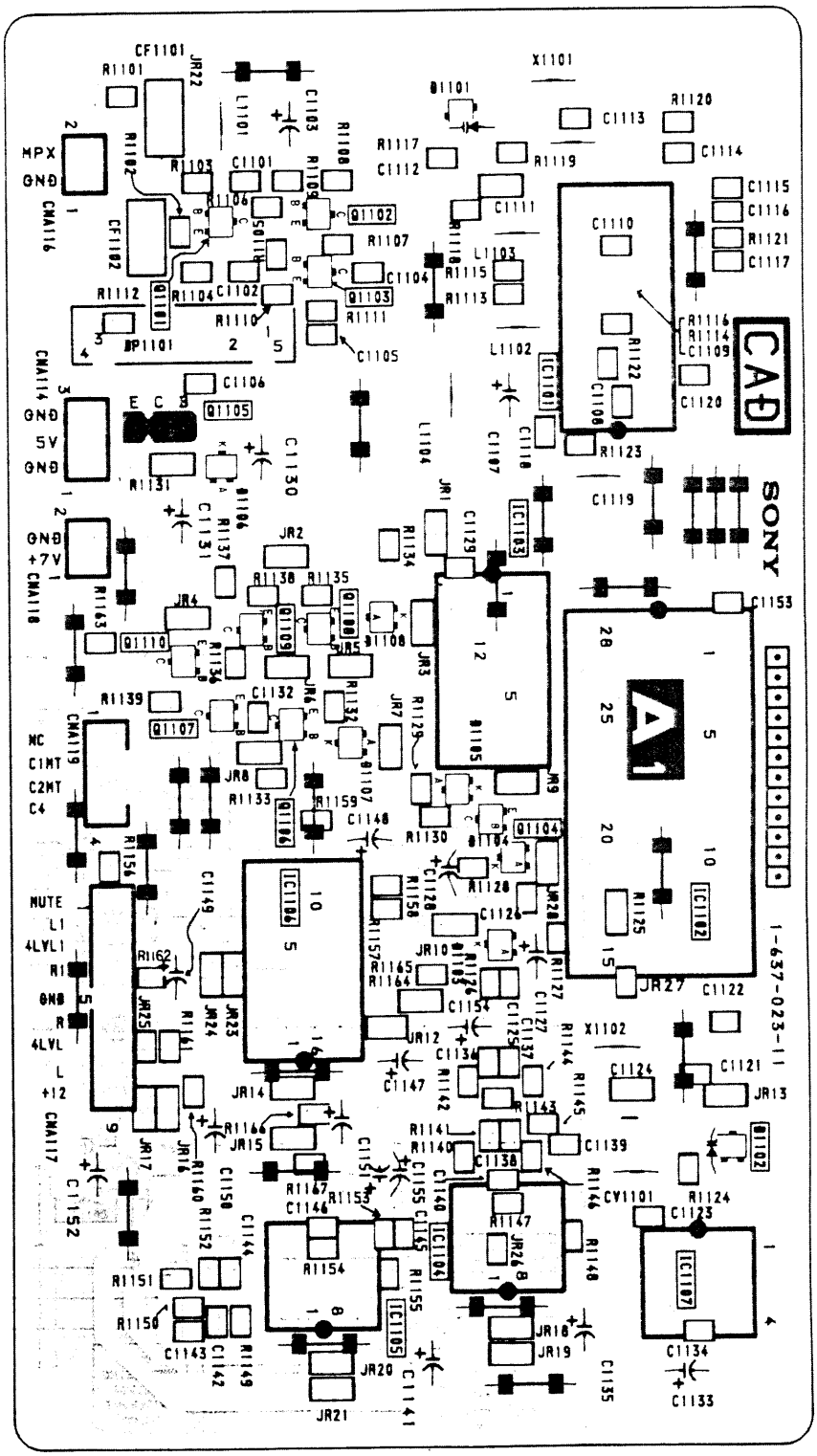
IC	
IC001	B-2
IC002	C-2
IC003	C-1
IC005	G-2
IC251	F-4
IC261	C-4
IC501	G-6
IC502	E-5
IC601	A-6
IC604	A-4
IC608	A-3

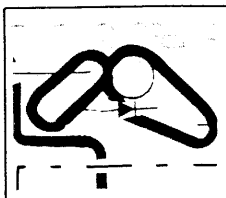
TRANSISTOR	
Q001	C-2
Q002	C-2
Q003	D-1
Q004	D-4
Q005	C-1
Q006	C-1
Q007	F-2
Q008	F-2
Q009	C-3
Q010	A-2
Q251	E-4
Q261	D-4
Q271	C-5
Q502	F-5
Q505	E-6
Q506	D-6
Q507	G-4
Q598	G-1
Q601	B-3
Q602	C-8
Q603	B-4
Q604	A-6
Q605	D-5
Q606	C-4
Q607	D-5
Q608	C-4
Q609	C-4
Q801	G-4
Q804	E-10
Q805	F-7

DIODE	
D001	A-2
D002	D-3
D003	A-2
D005	G-1
D006	F-1
D007	A-2
D009	E-1
D010	G-1
D011	G-1
D012	C-1
D013	D-2
D271	C-5
D272	D-5
D501	G-7
D504	E-5
D506	F-5
D508	G-5
D511	E-6
D512	E-5
D513	E-5
D514	E-5
D515	E-5
D601	A-8
D602	C-6
D603	A-5
D604	A-4
D605	B-6
D606	B-6
D607	B-6
D608	C-7
D609	B-6
D610	B-4
D611	D-6
D612	A-4
D613	A-5
D614	A-5
D616	D-5
D617	B-6
D618	D-5
D619	B-6
D620	D-5
D621	B-6
D622	D-5
D623	B-4
D624	B-4
D630	D-5
D801	F-8
D802	F-10
D803	G-10
D804	E-7
D805	E-7
D806	E-9
D808	D-9

VARIABLE RESISTOR	
RV501	F-5
RV502	G-7
RV601	A-6

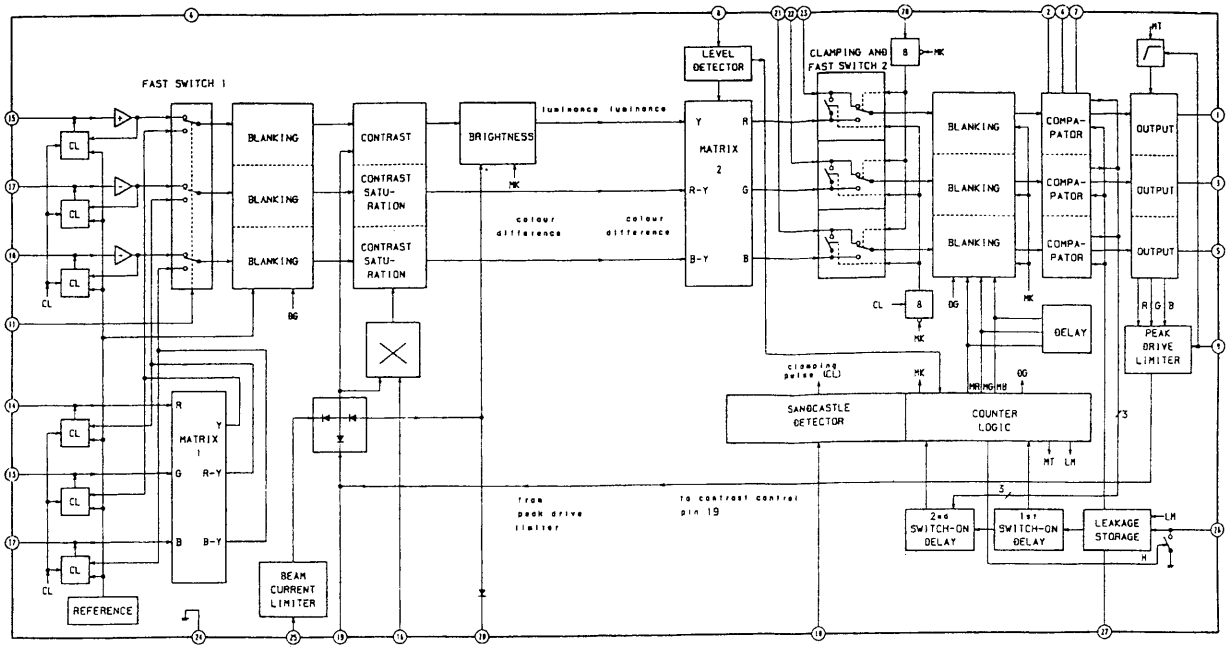
TP	
TP91	G-9



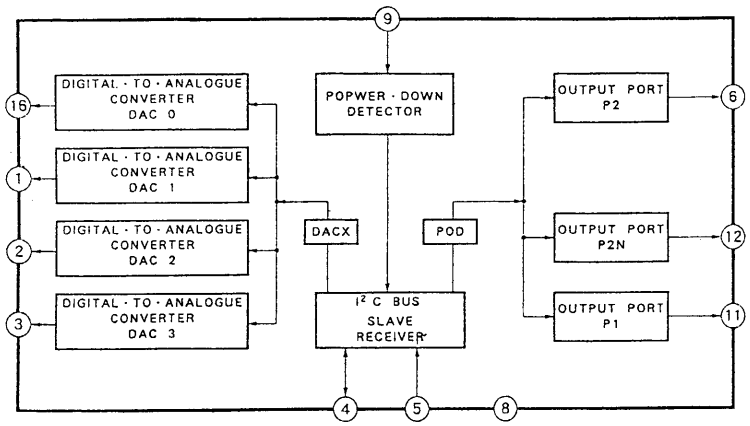


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

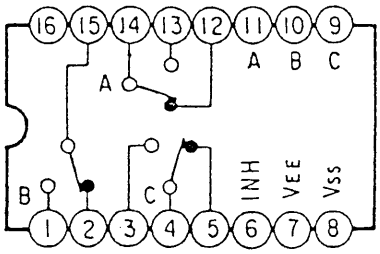
B BOARD IC301 TDA4580-V7



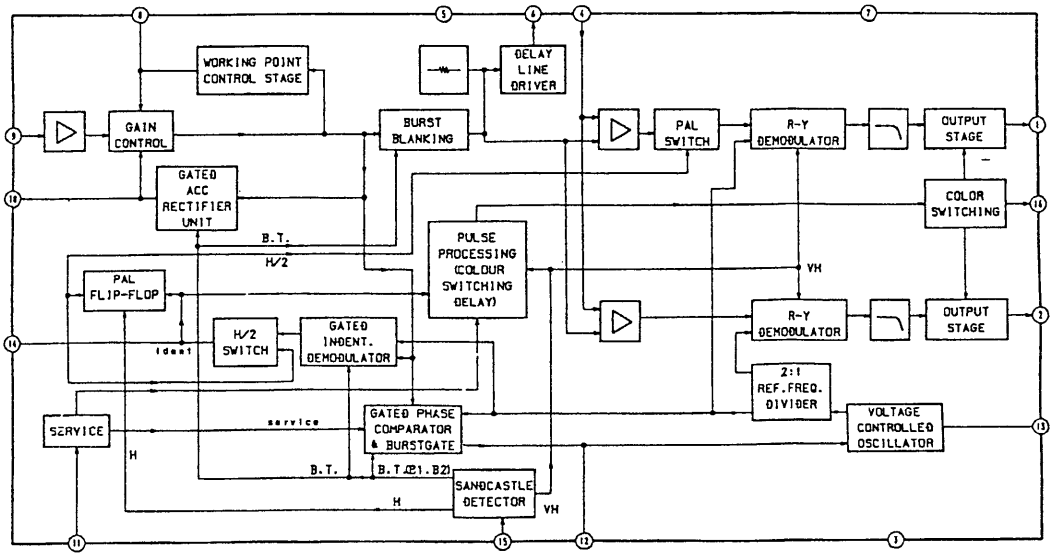
B BOARD IC302 TDA8442-N3



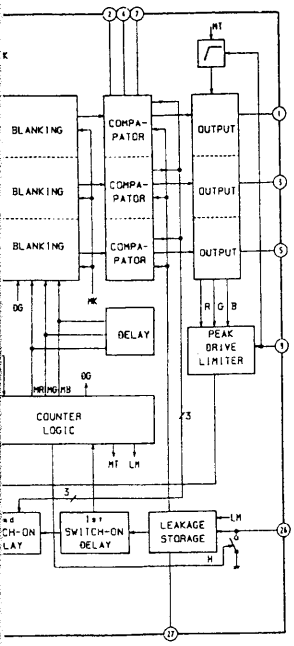
B BOARD IC303 MC14053BCP



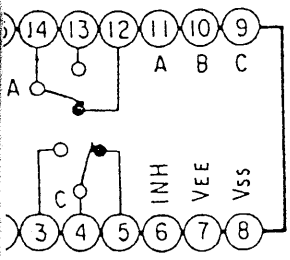
B BOARD IC331 TDA4510

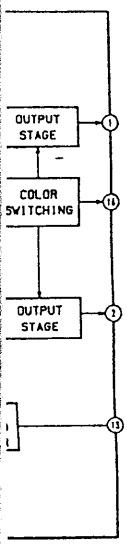


KV-X25520/X29520
RM-816

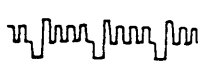
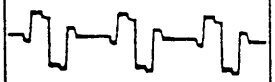
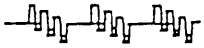
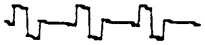
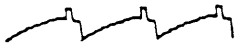
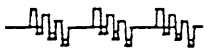


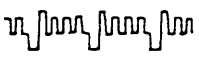
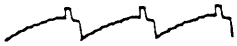
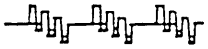
RD IC303 MC14053BCP





・WAVEFORMS B BOARD

① 4.8Vp-p (H)	② 4.8Vp-p (H)	③  4.8Vp-p (H)	④ 1.0Vp-p (H)	⑤ 0.4
⑥  0.9Vp-p (H)	⑦  1.1Vp-p (H)	⑧  0.5Vp-p (H)	⑨ 0.2Vp-p (H)	⑩ 1.0
⑪ 0.4Vp-p (H)	⑫ 1.0Vp-p (H)	⑬  0.6Vp-p (H)	⑭  1 Vp-p (H)	

③  4.8Vp-p (H)	④ 1.0Vp-p (H)	⑤ 0.4 Vp-p (H)
⑧ 0.5Vp-p (H)	⑨ 0.2Vp-p (H)	⑩ 1.0Vp-p (H)
⑬  0.6Vp-p (H)	⑭  1 Vp-p (H)	

• B BOARD

IC301	TDA4580-V7	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER I2C BUS
IC303	MC14053BCP	Y/C COMP SW
IC331	TDA4510	COLOR PROCESSOR
IC332	TDA4660V2	1H-DELAY
IC1301	HIC2110	SHARPNESS CONTROL
Q301	2SC2412K	Y AMP
Q303	2SC2412K	STBY SW
Q305	DTA144EK	ANTI PRIORITY SCART
Q311	2SC2412K	ON SCREEN DISPLAY SW
Q312	2SC2412K	CANRL +BLK
Q313	2SC2412K	ON SCREEN DISPLAY SW
Q316	2SC2412K	ON SCREEN DISPLAY SW
Q330	2SA1037K	VIDEO AMP
Q332	2SA1037K	VIDEO BUFF
Q333	2SA1037K	Y AMP
Q334	2SC2412K	PAL SW
Q381	DTC124EK	MUTE SW
Q382	2SC2412K	ABL
Q1301	DTC124EK	Y BUFF
Q1305	2SC2412K	Y OUT
Q1306	2SC2412K	Y OUT
D301	1SS133	ACO AT STBY
D302	1SS133	ACO AT STBY
D303	1SS133	ACO AT STBY
D304	1SS133	DECOUPLING BLK
D305	1SS133	PROTECT
D307	MTZ11CJ	PROTECT
D308	1SS133	PROTECT
D309	1SS133	STOP REJECT
D310	MTZ11CJ	PROTECT
D311	MTZ11CJ	PROTECT
D312	MTZ11CJ	PROTECT
D313	1SS133	PROTECT
D314	1SS133	PROTECT
D315	1SS133	PROTECT
D316	1SS133	PROTECT
D317	1SS133	PROTECT
D318	1SS133	PROTECT
D319	1SS133	PROTECT
D320	1SS133	PROTECT
D350	MTZ5.6BJ	REG

B BOARD ＊MARK

	25 INCH	29 INCH		25 INCH
B-73	–	3P	R306	–
			R315	180
C321	100P	–	R316	180
C344	0.47 μF 100V	0.33 μF 100V	R317	180
C386	–	4.7 μF 50V	R322	1K
C1311	56P	33P	R324	–
			R325	–
D308	–	1SS133	R349	680
			R350	680
IC1301	–	HIC-2110	R351	220
			R357	–
JR387	–	○	R377	560
JR390	○	–	R386	–
			R390	220
L303	5.6 μH	–	R1302	–
			R1303	–
Q301	2SC2412K	–	R1304	–
Q1305	–	2SC2412K	R1308	0

– : NO

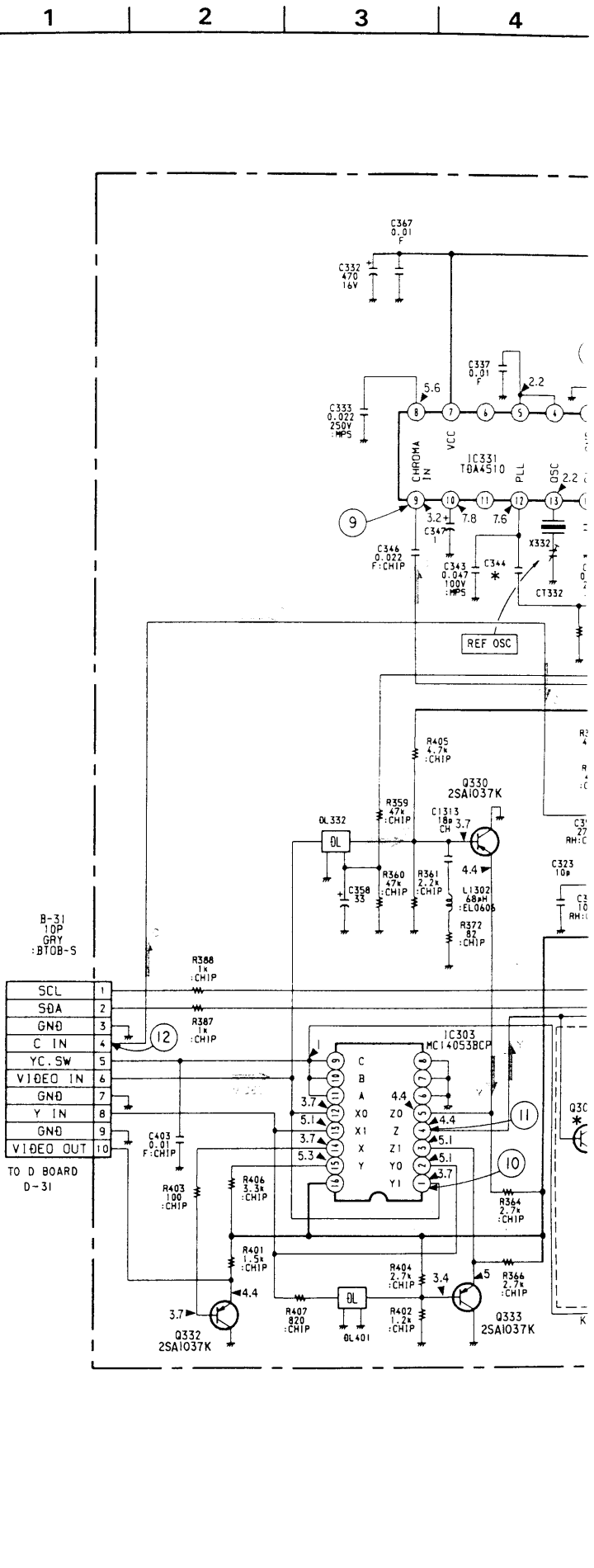
B BOARD

IC301	TDA4580-V7	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER I2C BUS
IC303	MC14053BCP	Y/C COMP SW
IC331	TDA4510	COLOR PROCESSOR
IC332	TDA4660V2	1H-DELAY
IC1301	HIC2110	SHARPNESS CONTROL
Q301	2SC2412K	Y AMP
Q303	2SC2412K	STBY SW
Q305	DTA144EK	ANTI PRIORITY SCART
Q311	2SC2412K	ON SCREEN DISPLAY SW
Q312	2SC2412K	CANRL +BLK
Q313	2SC2412K	ON SCREEN DISPLAY SW
Q316	2SC2412K	ON SCREEN DISPLAY SW
Q330	2SA1037K	VIDEO AMP
Q332	2SA1037K	VIDEO BUFF
Q333	2SA1037K	Y AMP
Q334	2SC2412K	PAL SW
Q381	DTC124EK	MUTE SW
Q382	2SC2412K	ABL
Q1301	DTC124EK	Y BUFF
Q1305	2SC2412K	Y OUT
Q1306	2SC2412K	Y OUT
D301	1SS133	ACO AT STBY
D302	1SS133	ACO AT STBY
D303	1SS133	ACO AT STBY
D304	1SS133	DECOUPLING BLK
D305	1SS133	PROTECT
D307	MTZ11CJ	PROTECT
D308	1SS133	PROTECT
D309	1SS133	STOP REJECT
D310	MTZ11CJ	PROTECT
D311	MTZ11CJ	PROTECT
D312	MTZ11CJ	PROTECT
D313	1SS133	PROTECT
D314	1SS133	PROTECT
D315	1SS133	PROTECT
D316	1SS133	PROTECT
D317	1SS133	PROTECT
D318	1SS133	PROTECT
D319	1SS133	PROTECT
D320	1SS133	PROTECT
D350	MTZ5.6BJ	REG

*MARK

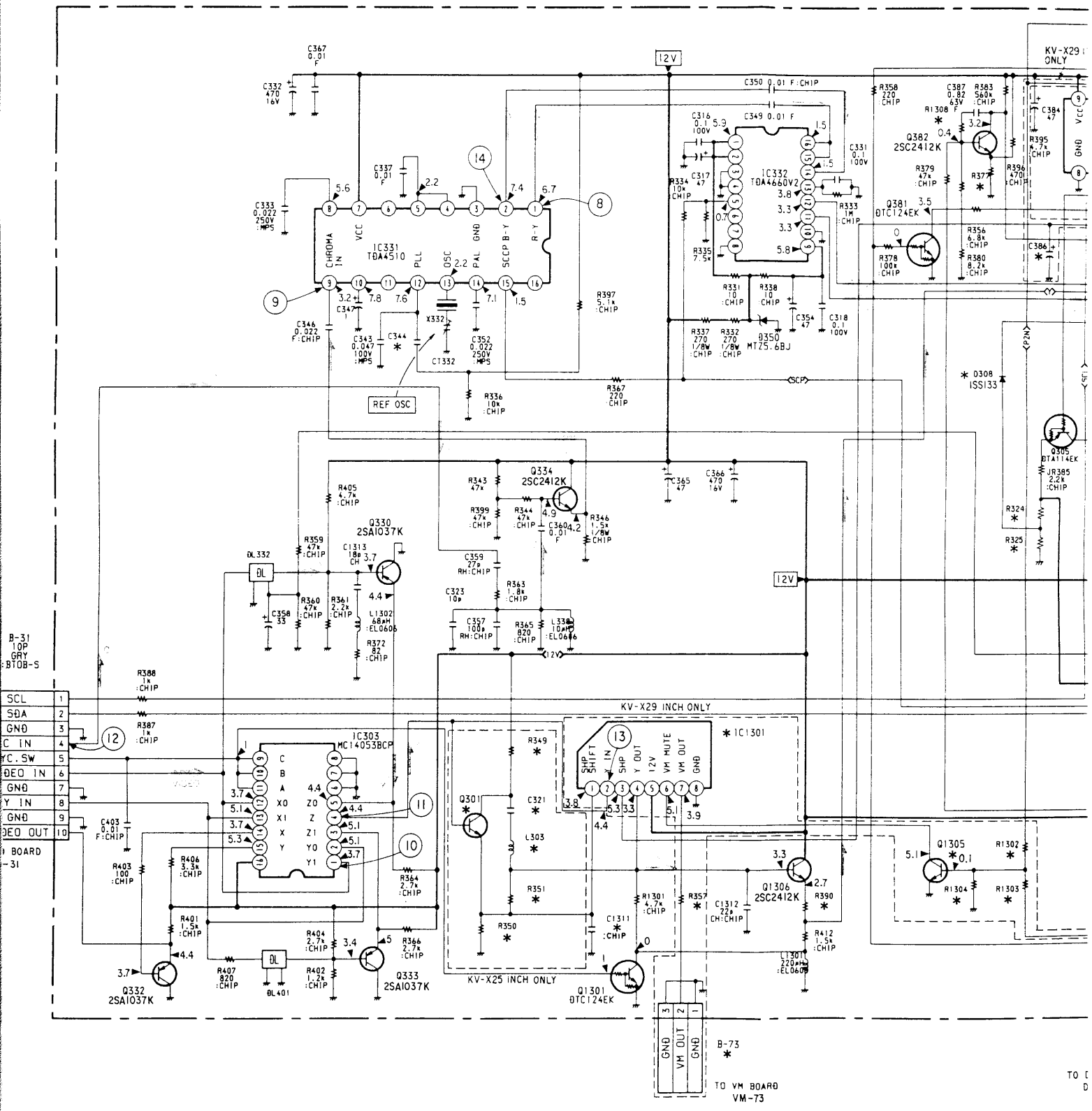
25 INCH	29 INCH		25 INCH	29 INCH
–	3P	R306	–	0
		R315	180	120
100P	–	R316	180	120
.47 μ F 100V	0.33 μ F 100V	R317	180	120
–	4.7 μ F 50V	R322	1K	1.8K
56P	33P	R324	–	10K
		R325	–	10K
–	1SS133	R349	680	–
		R350	680	–
–	HIC-2110	R351	220	–
		R357	–	220
–	○	R377	560	2.2K
○	–	R386	–	3.3K
		R390	220	100
5.6 μ H	–	R1302	–	47K
		R1303	–	47K
2SC2412K	–	R1304	–	100K
–	2SC2412K	R1308	0	4.7K

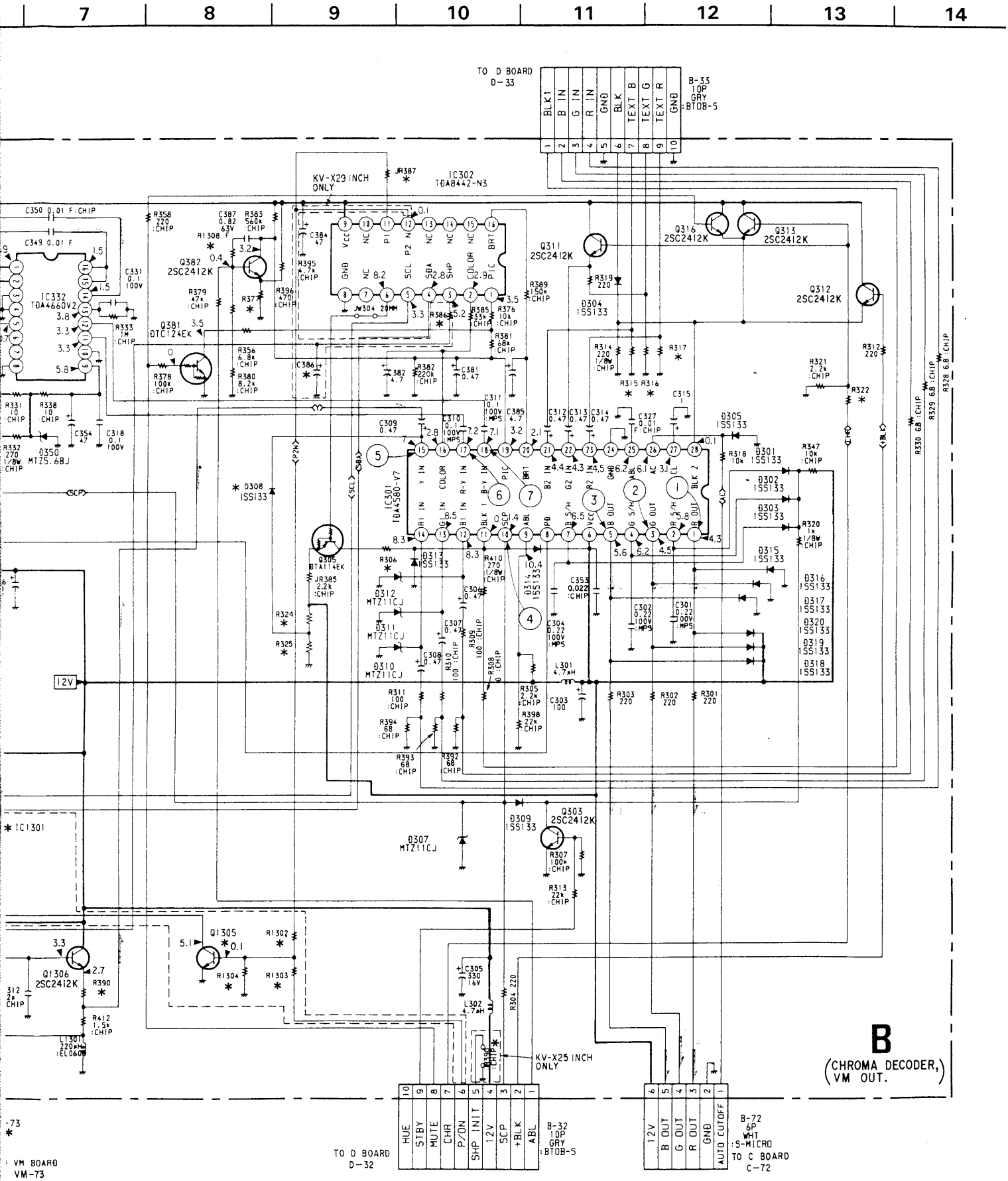
– : NOT MOUNTED



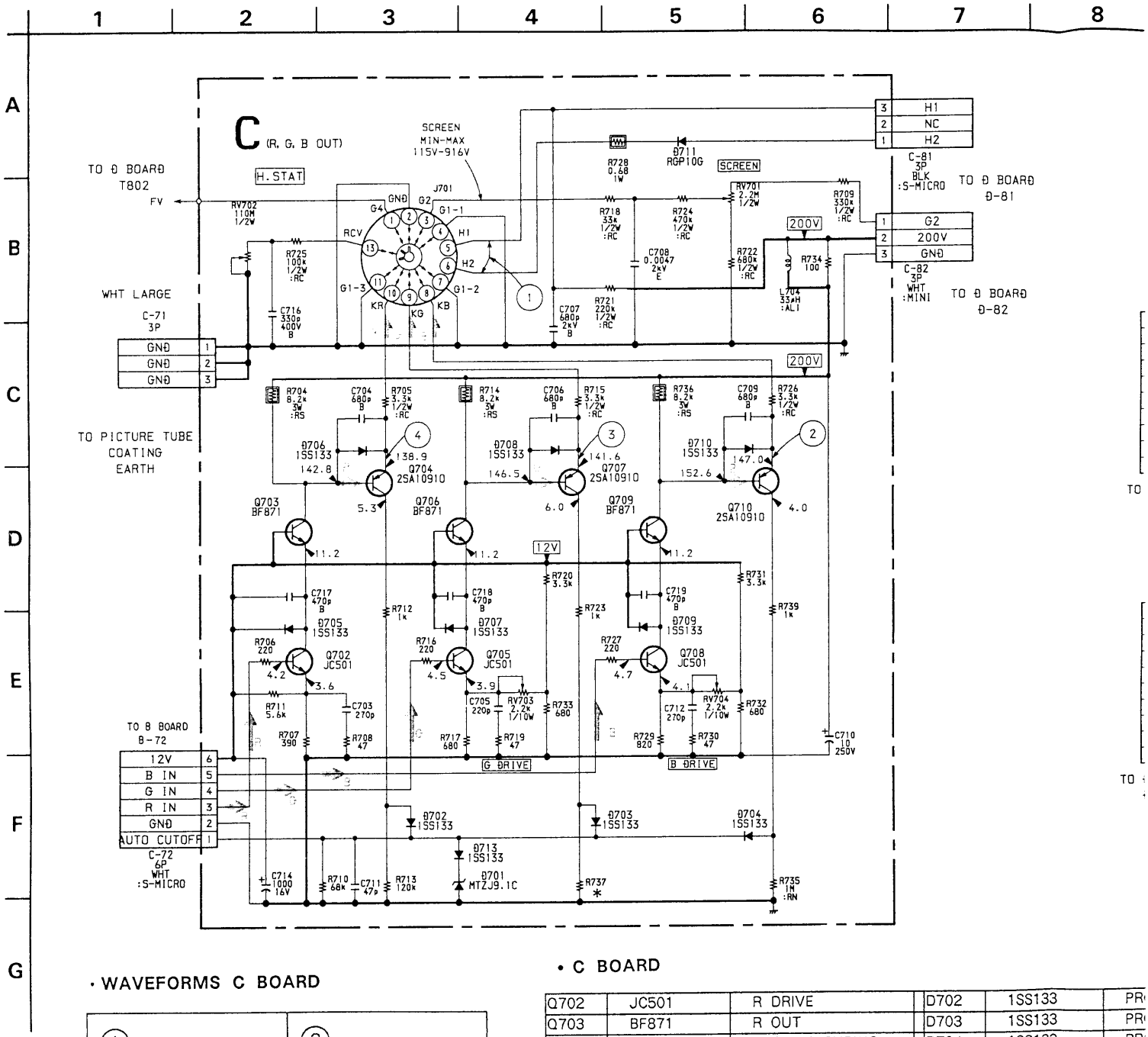
KV-X2552U/X2952U
RM-816

1 2 3 4 5 6 7 8 9

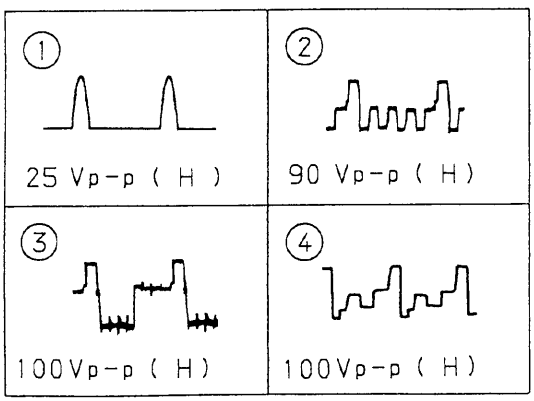




For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- sales@mauritron.co.uk



• WAVEFORMS C BOARD



• C BOARD

Q702	JC501	R DRIVE	D702	1SS133	PR
Q703	BF871	R OUT	D703	1SS133	PR
Q704	2SA1091-O	ACO MEASURING	D704	1SS133	PR
Q705	JC501	G DRIVE	D705	1SS133	PR
Q706	BF871	G OUT	D706	1SS133	PR
Q707	2SA1091-O	ACO MEASURING	D707	1SS133	PR
Q708	JC501	B DRIVE	D708	1SS133	PR
Q709	BF871	B OUT	D709	1SS133	PR
Q710	2SA1091-O	ACO MEASURING	D710	1SS133	PR
			D711	RGP10G	HE
D701	MTZJ9.1C	PROTECT	D713	1SS133	PR

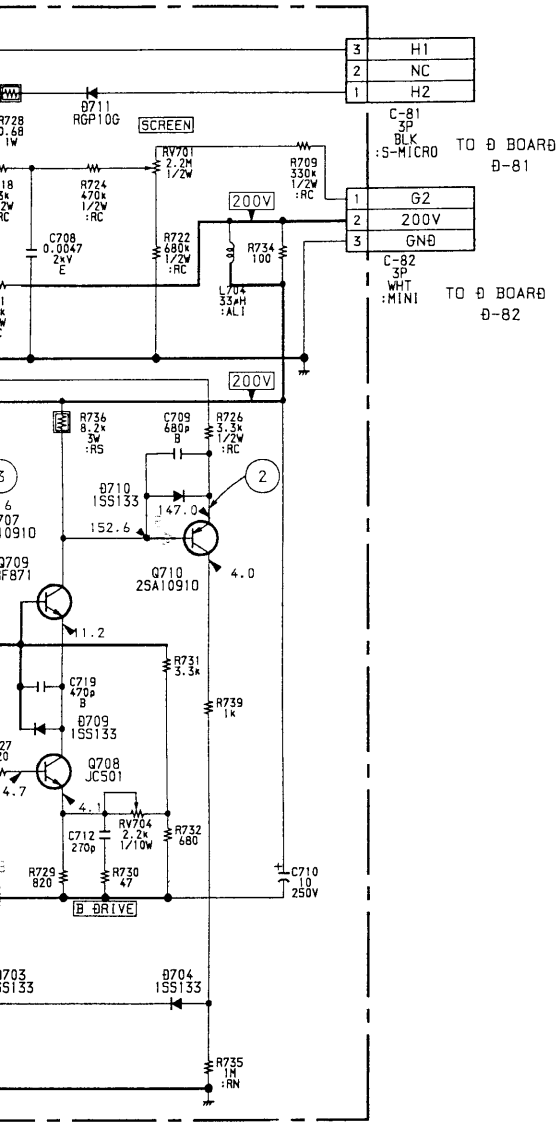
C BOARD ＊MARK

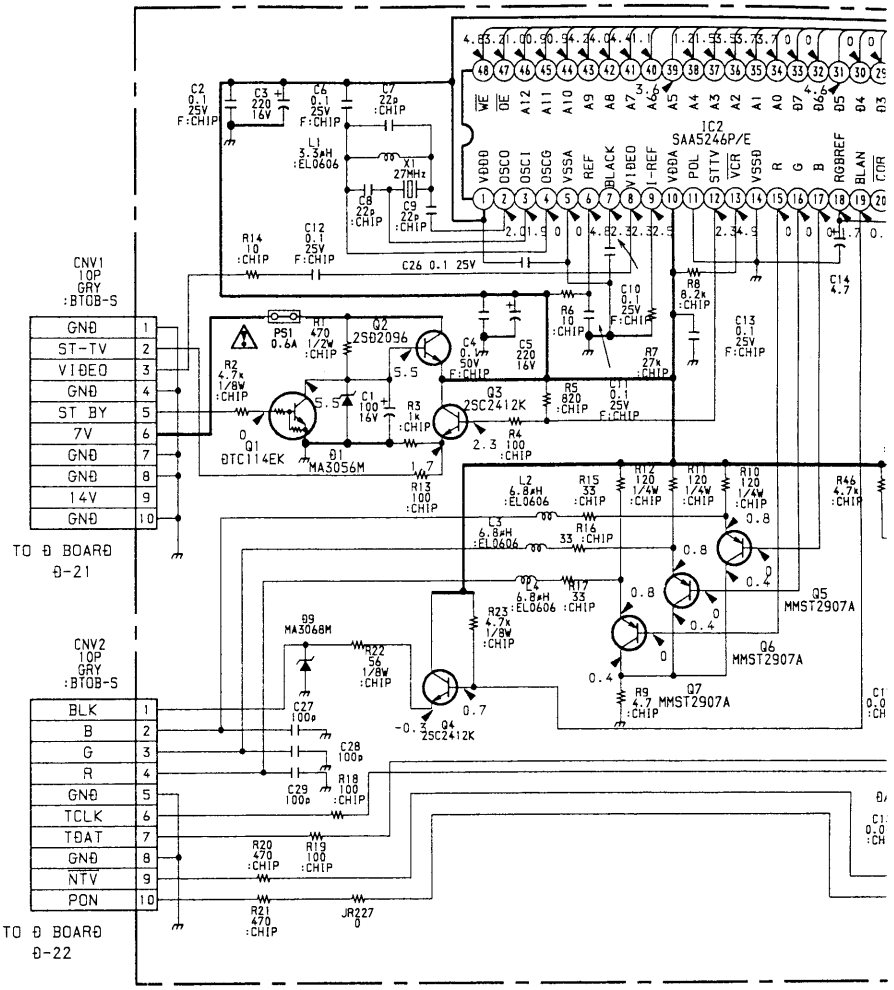
	25 INCH	29 INCH
R737	820K	470K

– : NOT MOUNTED

KV-X2552U/X2952U
RM-816

5 | 6 | 7 | 8 | 9 | 10 | 11 | 12





OARD

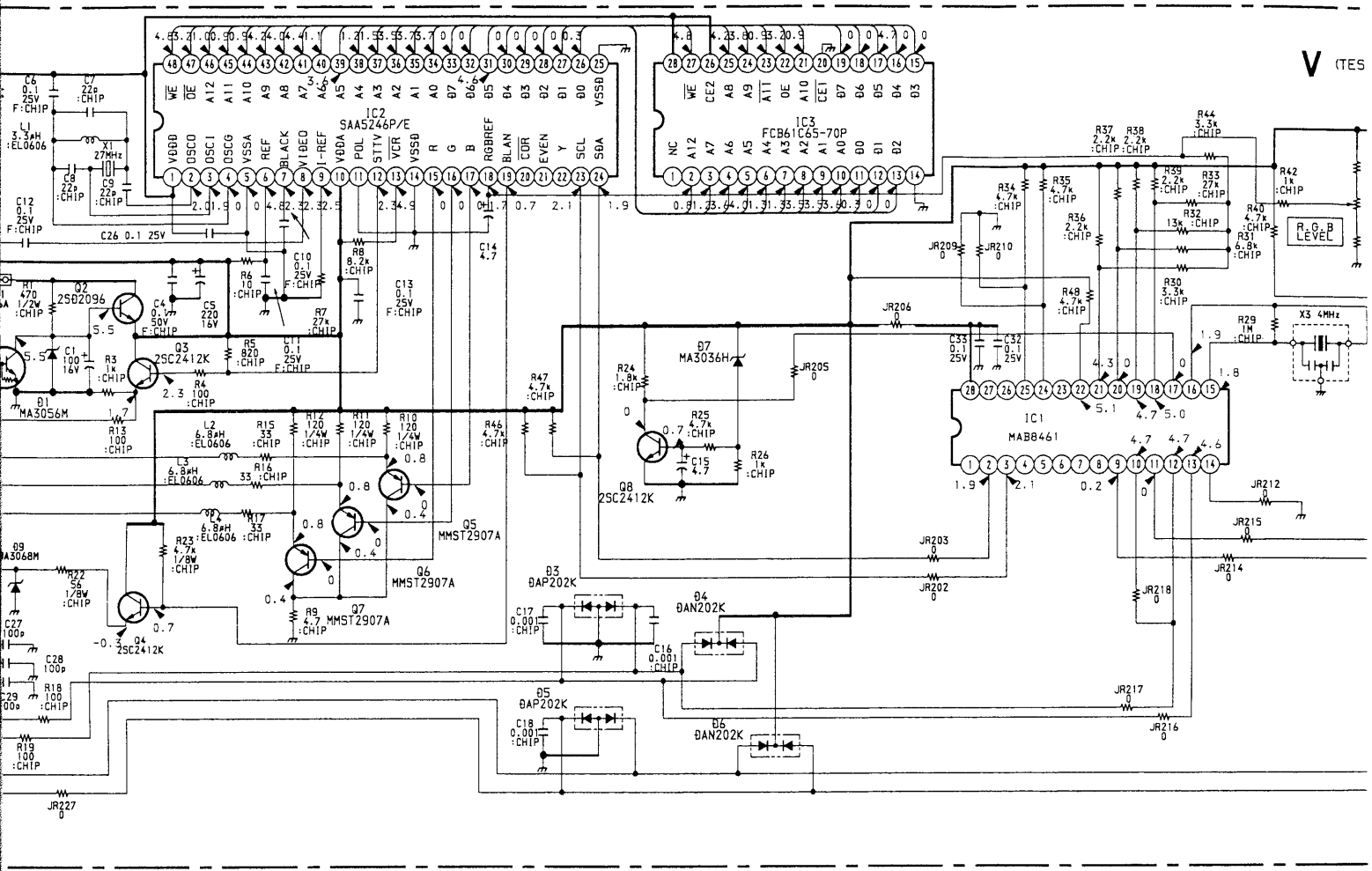
JC501	R DRIVE	D702	1SS133	PROTECT
BF871	R OUT	D703	1SS133	PROTECT
2SA1091-O	ACO MEASURING	D704	1SS133	PROTECT
JC501	G DRIVE	D705	1SS133	PROTECT
BF871	G OUT	D706	1SS133	PROTECT
2SA1091-O	ACO MEASURING	D707	1SS133	PROTECT
JC501	B DRIVE	D708	1SS133	PROTECT
BF871	B OUT	D709	1SS133	PROTECT
2SA1091-O	ACO MEASURING	D710	1SS133	PROTECT
		D711	RGP10G	HEATING VOLTAGE RECT
MTZJ9.1C	PROTECT	D713	1SS133	PROTECT

RD ＊MARK

	25 INCH	29 INCH
	820K	470K

– : NOT MOUNTED

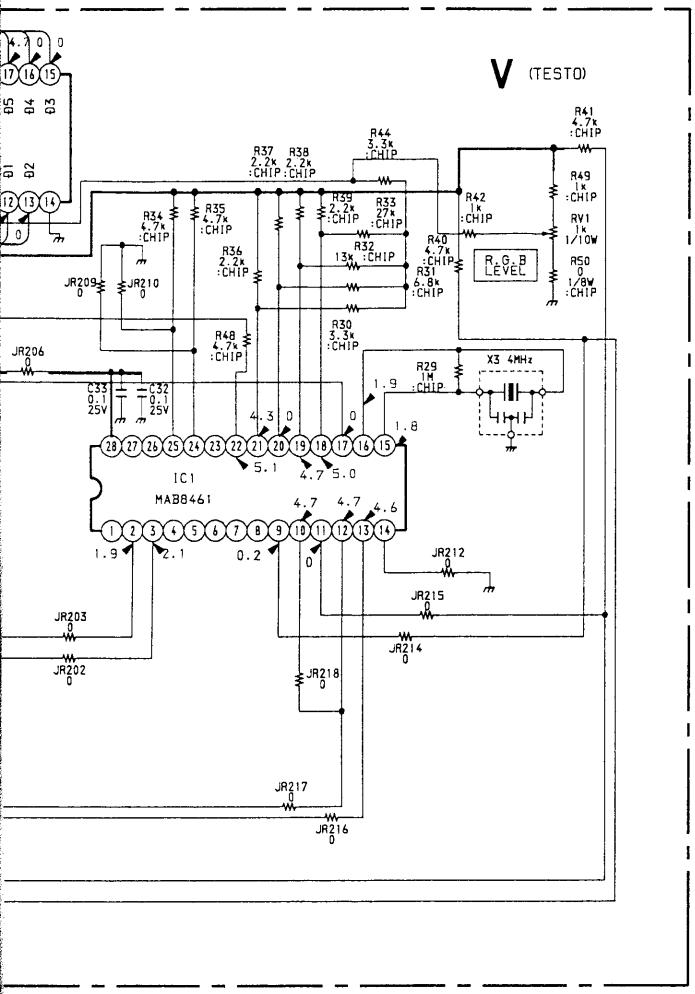
10 | 11 | 12 | 13 | 14 | 15 | 16 | 17



• V BOARD

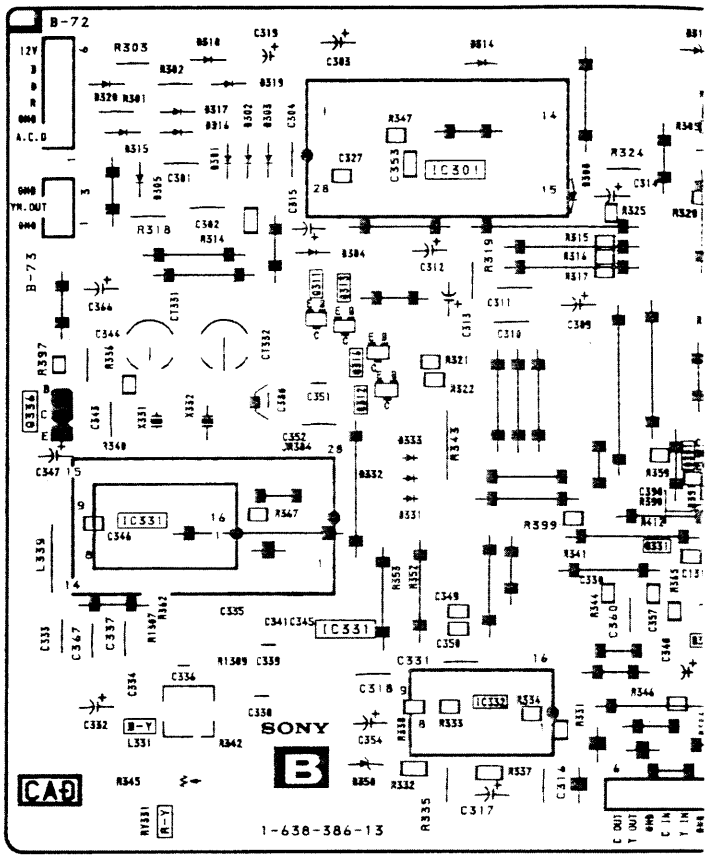
IC1	MAB8461P-W208	MICRO-CONT
IC2	SAA5246P/E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	DTC114EK	STAND BY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	PON SW
D1	MA3056M	5V REG
D3	DAP202K	PROTECT
D4	DAN202K	PROTECT
D5	DAP202K	PROTECT
D6	DAN202K	PROTECT
D7	MA3036H	PROTECT
D9	MA3068M	PROTECT

15 | 16 | 17 | 18 | 19

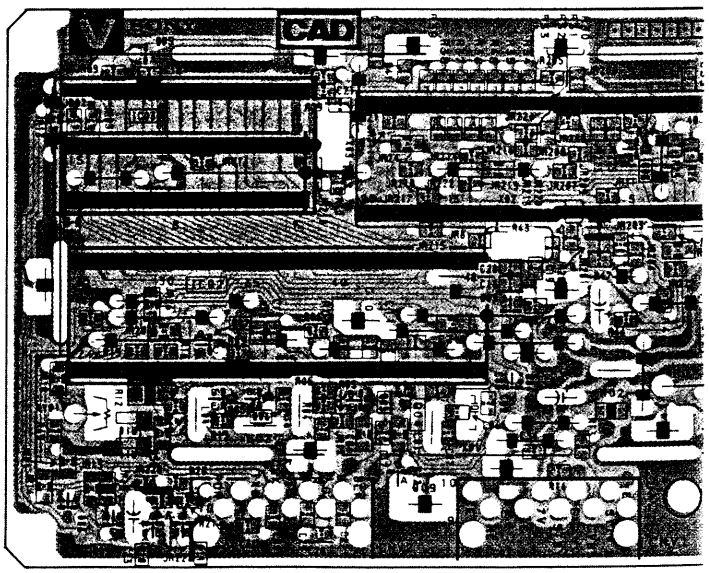


B [CHROMA DECODER VM OUT] C [R. G. B OUT] V

—B Board—



—V Board—



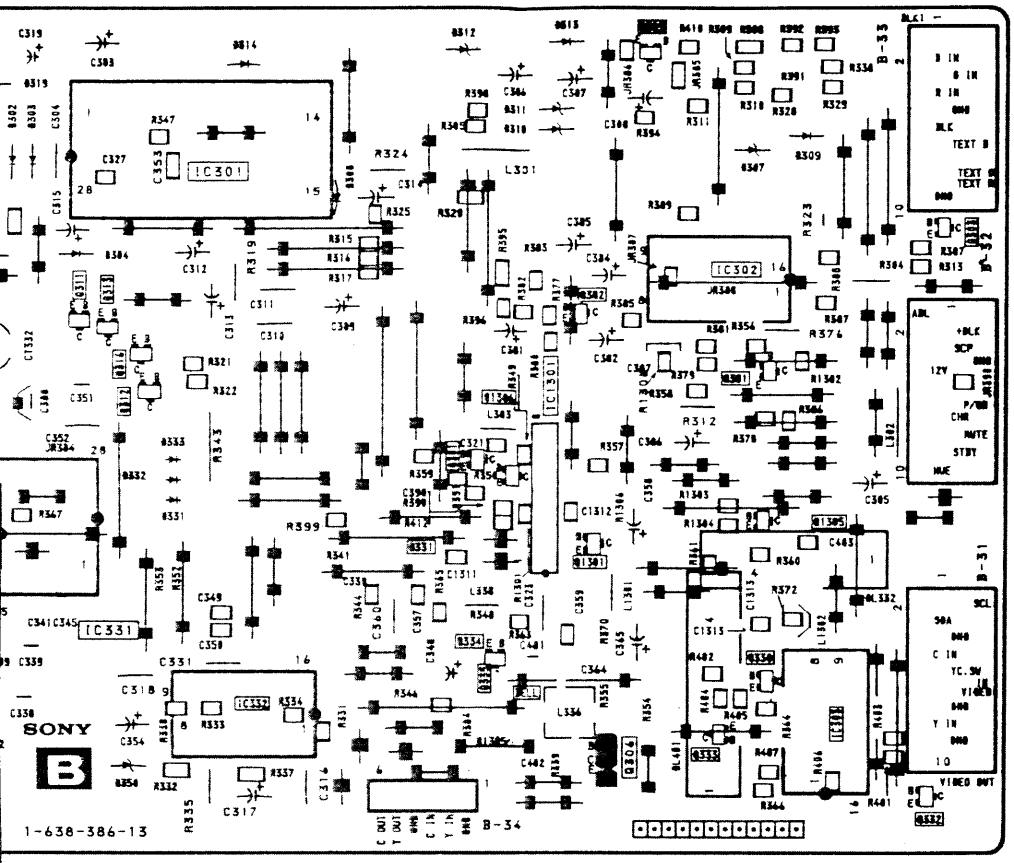
• ▒▒▒: Pattern from the side which e
• ▒▒▒: Pattern of the rear side.

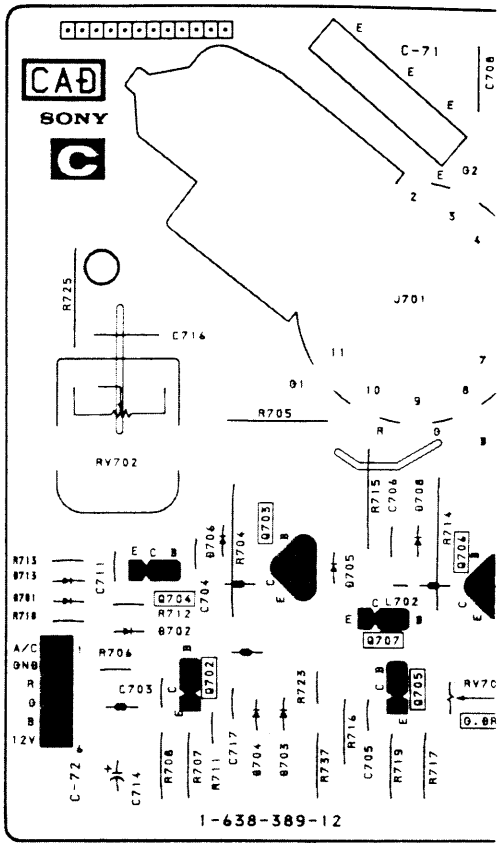
BOARD

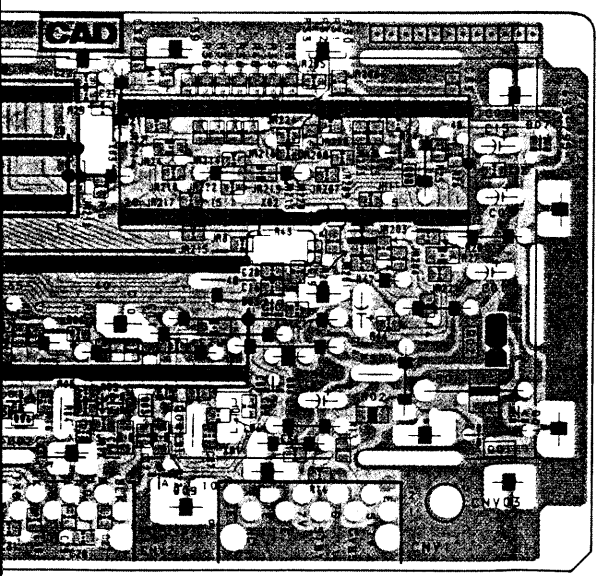
IC1	MAB8461P-W208	MICRO-CONT
IC2	SAA5246P/E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	DTC114EK	STAND BY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	PON SW
D1	MA3056M	5V REG
D3	DAP202K	PROTECT
D4	DAN202K	PROTECT
D5	DAP202K	PROTECT
D6	DAN202K	PROTECT
D7	MA3036H	PROTECT
D9	MA3068M	PROTECT

DECODER] C [R. G. B OUT] V [TEXT]

—C Board—

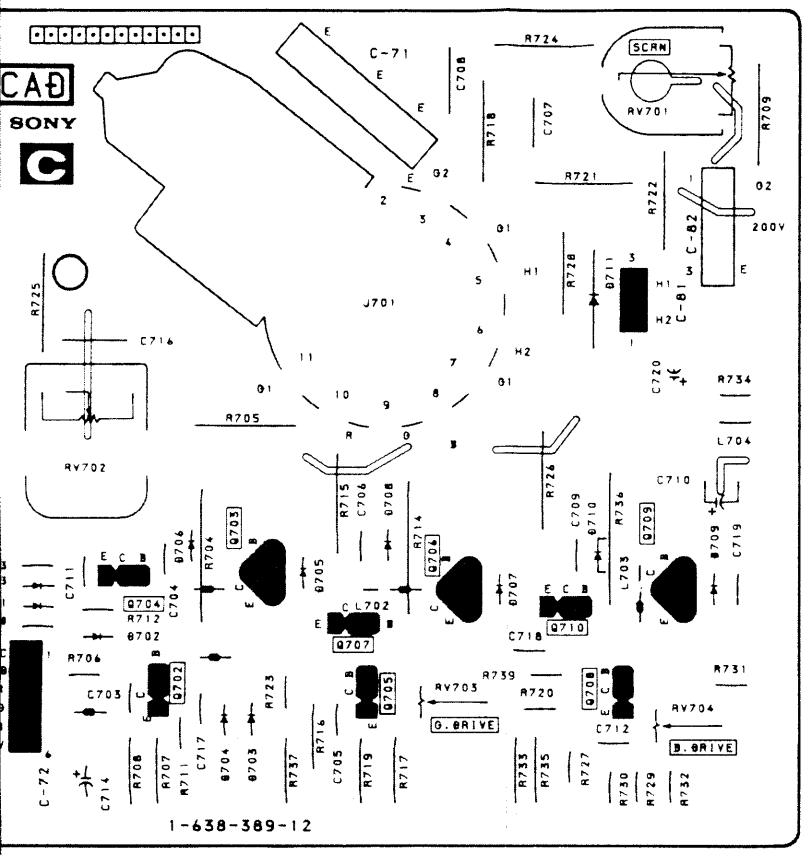






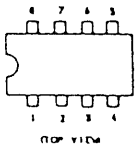
• ▒▒▒: Pattern from the side which enables seeing.
• ▒▒▒: Pattern of the rear side.

C Board—


CA∂
SONY
C
C-71
R724
SCRN
RV701
C708
R718
C707
R709
R721
R722
C-82
200V
R725
C716
J701
H1
H2
C-81
C720
R734
L704
RV702
R705
C710
R715
C706
Q708
R714
Q704
R724
C709
Q710
R736
Q709
L703
Q703
C711
R704
Q706
Q705
C704
R712
Q702
C L702
Q707
C718
R706
C703
Q702
R739
RV703
R720
Q708
R731
RV704
G. DRIVE
B. DRIVE
C712
C-72
C714
R708
R707
R711
C717
Q704
Q703
R737
R716
C705
R719
R717
R733
R735
R727
R730
R729
R732
1-638-389-12

5-4. SEMICONDUCTORS

BA4558
NE5532P
RC4558P
SDA2546
TBA129
TDA1543
TEA2014A
TEA2031A



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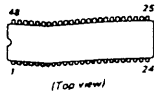
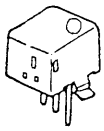
SAA5246P/E/M4A



SBX1610-11



CXA1114P
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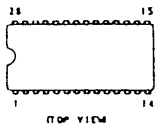
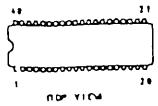
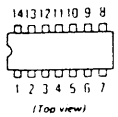
FCB61C65L-70P
MAB8461P-W208
SAA7280
TC5565APL-15L
TDA4580/V7
TDA6200
TEA2028B



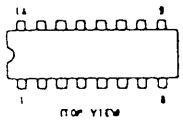
SDA20560-A012



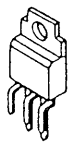
SN74LS02N



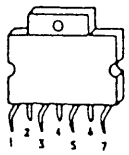
HD14053BFP
MC14051BCP
PCF8574
TDA4510/V8
TDA4660V2
TDA8442-N3
TEA2260
μ PD4053BC



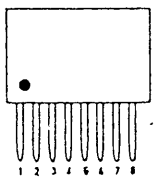
TDA2050



TDA8170



HIC2110



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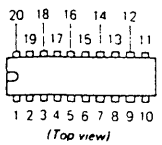

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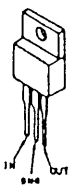

BF871

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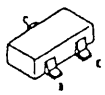
2SC1623-L5L6
2SC2712-YG



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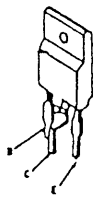
2SC2785-HFE

2SD1548-
2SD1941-



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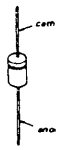
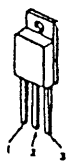


CTU-12



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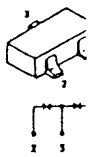
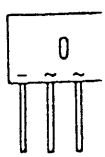


D4SB60L



5-4. SEMICONDUCTORS

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TDA1543
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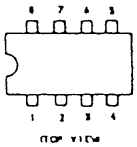
TEA2031A



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MAB8461P-W208
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TC5565APL-15L
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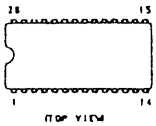
TDA6200
TEA2028B



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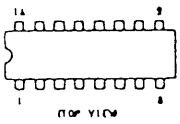
TDA8442-N3
TEA2260
μ PD4053BC



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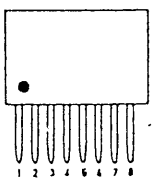

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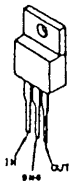

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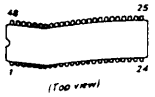

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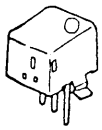

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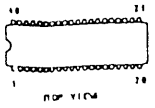

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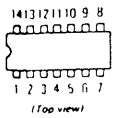

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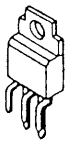

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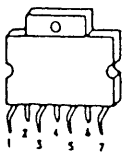

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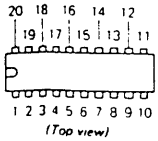

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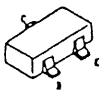

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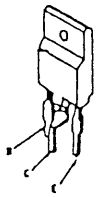

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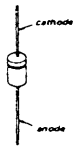

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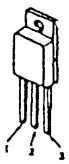

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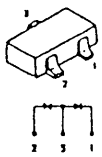

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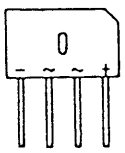

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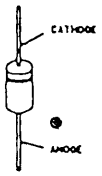
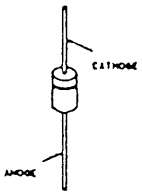
RGP02-17
RU-3AM



ERC06-15S



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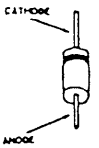

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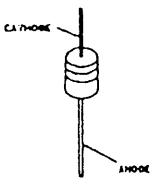
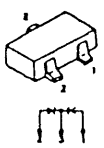
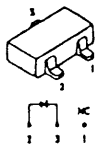
MTZJ-15A
MTZJ-3.9B
MTZJ-33A
MTZJ-36D
MTZN-10C
RD11ESB3
RD5.6ESB2
RD6.2ESB2
RD6.8ESB2
RD7.5ESB2
RD9.1ESB3
UZ-4.7BSC
1SS119



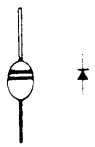
MA152WK



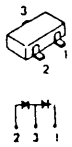
RD3.6M-B2
RD5.6M-B2
RD6.8M-B2



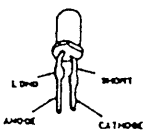
U05G



1SS226



LD-201VR



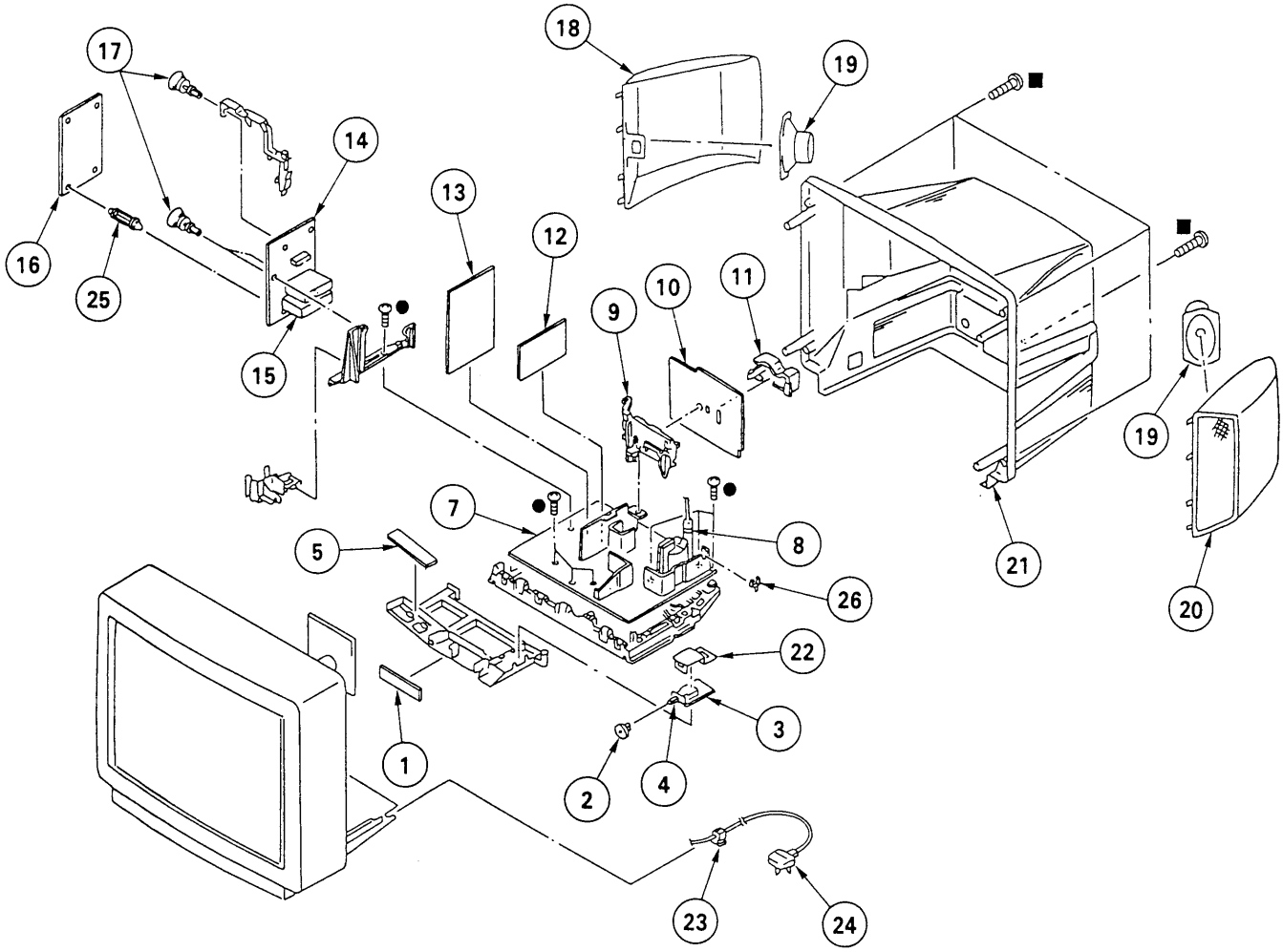
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

● : BVTP3×12 7-685-648-79
■ : BVTP4×16 7-685-663-79

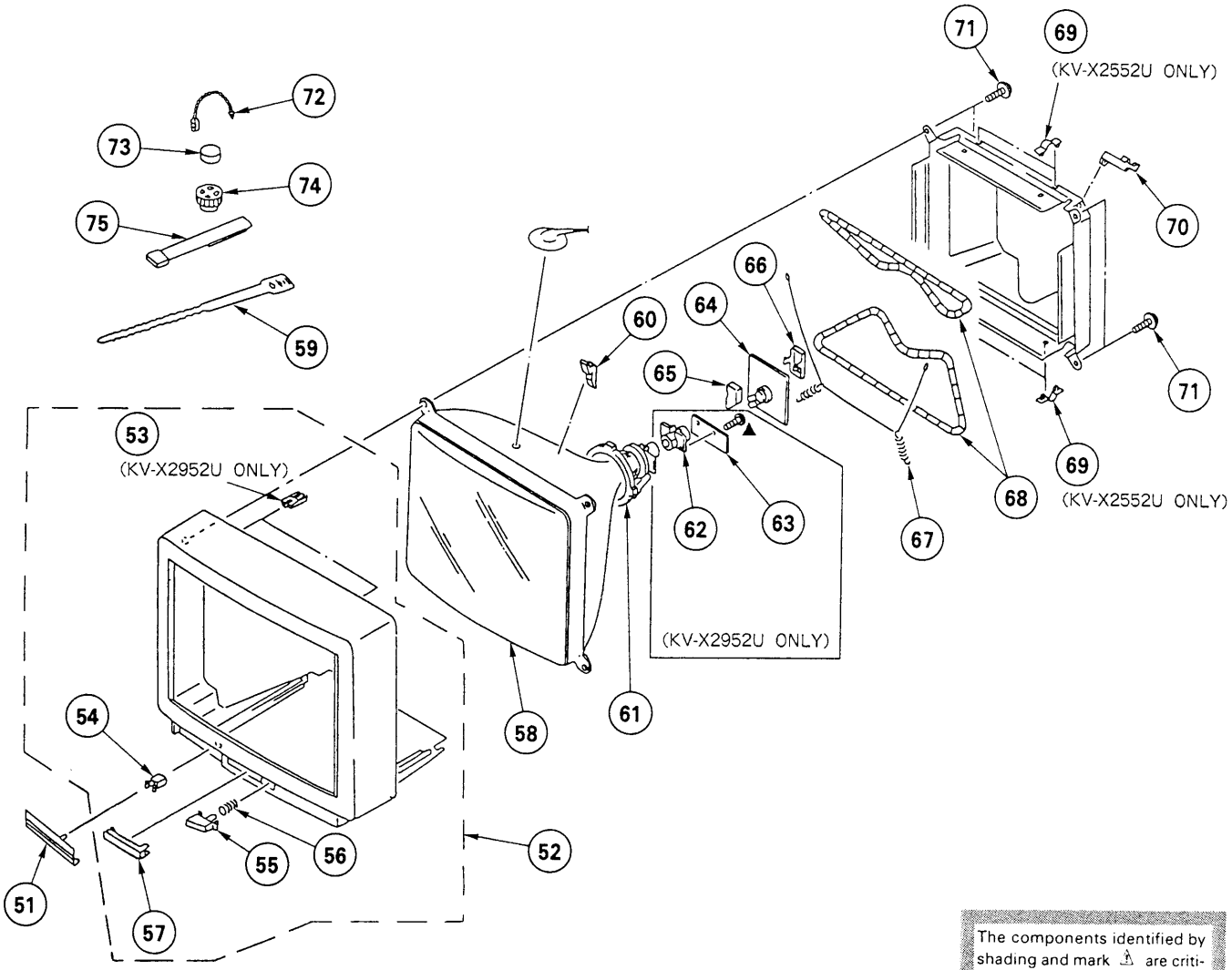


REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-392-11	H2 BOARD	
2	4-386-611-01	COVER, SWITCH	
3	*1-638-390-11	F BOARD	
4	⚠1-571-433-12	SWITCH, PUSH (AC POWER)	
5	*1-638-744-12	H1 BOARD	
7	*A-1642-033-A	D BOARD, COMPLETE (KV-X2552U ONLY)	
	*A-1642-041-A	D BOARD, COMPLETE (KV-X2952U ONLY)	
8	⚠1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)	
9	*4-386-624-11	BRACKET, J	
10	*A-1651-018-A	J1 BOARD, COMPLETE (KV-X2552U ONLY)	
	*A-1651-020-A	J1 BOARD, COMPLETE (KV-X2952U ONLY)	
11	4-200-014-01	BRACKET, TERMINAL	
12	*A-1645-015-A	V BOARD, COMPLETE	
13	*A-1621-035-A	B BOARD, COMPLETE (KV-X2552U ONLY)	
	*A-1621-034-A	B BOARD, COMPLETE (KV-X2952U ONLY)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
14	*A-1632-026-A	A BOARD, COMPLETE	
15	⚠1-465-515-11	TUNER (SUF944PLL)	
16	*A-1632-028-A	A1 BOARD, COMPLETE	
17	4-386-618-01	RIVET, T TYPE	
18	X-4200-088-1	BAFFLE (L) ASSY, BOARD	
19	1-544-727-11	SPEAKER (7.5X13CM)	
20	X-4200-087-1	BAFFLE (R) ASSY, BOARD	
21	4-034-786-01	COVER, REAR (KV-X2552U ONLY)	
	4-200-892-01	COVER, REAR (KV-X2952U ONLY)	
22	4-200-274-01	COVER, POWER SWITCH (KV-X2552U ONLY)	
	4-200-757-01	COVER, POWER SWITCH (KV-X2952U ONLY)	
23	⚠4-389-201-03	HOLDER, AC CORD	
24	⚠1-590-762-11	CORD, POWER (WITH PLUG)	
25	*4-385-948-01	HOLDER, PCB	
26	*3-646-071-00	HOLDER, WIRE	

6-2. PICTURE TUBE

▲ : BVTP3×8 7-685-646-79



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-200-889-11	DOOR	
52	X-4030-156-1	CABINET ASSY (WITH BEZEL ASSY) 54~57	(KV-X2552U ONLY)
	X-4200-089-1	CABINET ASSY (WITH BEZEL ASSY) 53~57	(KV-X2952U ONLY)
53	4-382-745-01	HOLDER, RC (KV-X2952U ONLY)	
54	4-392-036-01	CATCHER, PUSH	
55	4-200-886-01	BUTTON, POWER	
56	4-329-112-21	SPRING (KV-X2552U ONLY)	
	4-329-112-51	SPRING (KV-X2952U ONLY)	
57	4-200-148-01	WINDOW, ORNAMENTAL	
58	⚠8-733-231-05	PICTURE TUBE (A59JWC61X)	(KV-X2552U ONLY)
	⚠8-733-831-05	PICTURE TUBE (A68JYL61X)	(KV-X2952U ONLY)
59	3-701-007-00	BAND, BINDING	
60	3-704-495-01	SPACER, DY	
61	⚠1-451-311-21	DEFLECTION YOKE (Y25FXA)	(KV-X2552U ONLY)
	⚠1-451-313-21	DEFLECTION YOKE (Y29FXA)	(KV-X2952U ONLY)
62	⚠1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)	(KV-X2952U ONLY)
63	*1-634-193-11	VM BOARD (KV-X2952U ONLY)	
64	*A-1638-011-A	C BOARD, COMPLETE (KV-X2552U ONLY)	
	*A-1638-013-A	C BOARD, COMPLETE (KV-X2952U ONLY)	
65	*4-379-167-01	COVER (MAIN), CV	
66	*4-379-160-01	COVER (REAR LID), CV	
67	4-303-774-99	SPRING (KV-X2552U ONLY)	
	4-369-318-00	SPRING, TENSION (KV-X2952U ONLY)	
68	⚠1-460-091-11	COIL, DEGAUSS (KV-X2552U ONLY)	
	⚠1-426-535-11	COIL, DEGAUSSING (KV-X2952U ONLY)	
69	*4-385-916-01	HOLDER (D) (KV-X2552U ONLY)	
70	*4-387-284-01	HOLDER, LEAD	
71	4-373-263-01	SCREW (M), PT	
72	4-308-870-00	CLIP, LEAD WIRE	
73	1-452-032-00	MAGNET, DISK; 10MM ϕ	
74	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
75	X-4387-214-1	PERMALLOY ASSY, CORRECTION	

For Service Manuals
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SECTION 7
ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1621-035-A	B BOARD, COMPLETE (KV-X2552U ONLY)				
		**********				
	*A-1621-034-A	B BOARD, COMPLETE (KV-X2952U ONLY)				
		**********				
B31	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
B32	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
B33	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
B72	*1-568-881-51	PIN, CONNECTOR 6P				
B73	*1-568-878-51	PIN, CONNECTOR 3P (KV-X2952U ONLY)				
		<CAPACITOR>				
C301	1-137-031-11	FILM	0.22MF	10%	100V	
C302	1-137-031-11	FILM	0.22MF	10%	100V	
C303	1-124-122-11	ELECT	100MF	20%	50V	
C304	1-137-031-11	FILM	0.22MF	10%	100V	
C305	1-124-119-00	ELECT	330MF	20%	16V	
C306	1-124-902-00	ELECT	0.47MF	20%	50V	
C307	1-124-902-00	ELECT	0.47MF	20%	50V	
C308	1-124-902-00	ELECT	0.47MF	20%	50V	
C309	1-124-902-00	ELECT	0.47MF	20%	50V	
C310	1-137-098-11	FILM	0.1MF	10%	100V	
C311	1-137-098-11	FILM	0.1MF	10%	100V	
C312	1-124-902-00	ELECT	0.47MF	20%	50V	
C313	1-124-902-00	ELECT	0.47MF	20%	50V	
C314	1-124-902-00	ELECT	0.47MF	20%	50V	
C315	1-124-903-11	ELECT	1MF	20%	50V	
C316	1-137-098-11	FILM	0.1MF	10%	100V	
C317	1-124-910-11	ELECT	47MF	20%	50V	
C318	1-137-098-11	FILM	0.1MF	10%	100V	
C321	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	(KV-X2552U ONLY)
C323	1-102-947-00	CERAMIC	10PF	0.5PF	50V	
C327	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C331	1-137-098-11	FILM	0.1MF	10%	100V	
C332	1-126-103-11	ELECT	470MF	20%	16V	
C333	1-137-102-11	FILM	0.022MF	10%	250V	
C337	1-101-004-00	CERAMIC	0.01MF		50V	
C343	1-137-094-11	FILM	0.047MF	10%	100V	
C344	1-137-035-11	FILM	0.47MF	10%	100V	(KV-X2552U ONLY)
	1-137-033-11	FILM	0.33MF	10%	100V	(KV-X2952U ONLY)
C346	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C347	1-124-903-11	ELECT	1MF	20%	50V	
C349	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C350	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C352	1-137-102-11	FILM	0.022MF	10%	250V	
C353	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V	
C354	1-124-910-11	ELECT	47MF	20%	50V	
C357	1-163-377-11	CERAMIC CHIP	100PF	5%	50V	
C358	1-124-917-11	ELECT	33MF	20%	50V	
C359	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C360	1-101-004-00	CERAMIC	0.01MF		50V	
C365	1-124-910-11	ELECT	47MF	20%	50V	
C366	1-126-103-11	ELECT	470MF	20%	16V	
C367	1-101-004-00	CERAMIC	0.01MF		50V	
C381	1-124-902-00	ELECT	0.47MF	20%	50V	
C382	1-124-927-11	ELECT	4.7MF	20%	50V	
C384	1-124-910-11	ELECT	47MF	20%	50V	
C385	1-124-927-11	ELECT	4.7MF	20%	50V	
C386	1-124-927-11	ELECT	4.7MF	20%	50V	(KV-X2952U ONLY)
C387	1-137-027-11	FILM	0.82MF	10%	63V	
C403	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1311	1-163-111-00	CERAMIC CHIP	56PF	5%	50V	(KV-X2552U ONLY)
	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	(KV-X2952U ONLY)
C1312	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C1313	1-102-953-00	CERAMIC	18PF	5%	50V	
		<TRIMMER>				
CT332	1-141-418-11	CAP, ADJ				
		<DIODE>				
D301	8-719-911-19	DIODE 1SS119				
D302	8-719-911-19	DIODE 1SS119				
D303	8-719-911-19	DIODE 1SS119				
D304	8-719-911-19	DIODE 1SS119				
D305	8-719-911-19	DIODE 1SS119				
D307	8-719-110-23	DIODE RD11ES-B3				
D308	8-719-911-19	DIODE 1SS119				(KV-X2952U ONLY)
D309	8-719-911-19	DIODE 1SS119				
D310	8-719-110-23	DIODE RD11ES-B3				
D311	8-719-110-23	DIODE RD11ES-B3				
D312	8-719-110-23	DIODE RD11ES-B3				
D313	8-719-911-19	DIODE 1SS119				
D314	8-719-911-19	DIODE 1SS119				
D315	8-719-911-19	DIODE 1SS119				
D316	8-719-911-19	DIODE 1SS119				
D317	8-719-911-19	DIODE 1SS119				
D318	8-719-911-19	DIODE 1SS119				
D319	8-719-911-19	DIODE 1SS119				
D320	8-719-911-19	DIODE 1SS119				
D350	8-719-109-89	DIODE RD5.6ES-B2				
		<DELAY LINE>				
DL332	1-236-062-11	MODULE, Y DELAY LINE				
DL401	1-415-613-11	DELAY LINE, Y				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<IC>				
IC301	8-759-517-43	IC TDA4580-V7				
IC302	8-759-980-60	IC TDA8442N3				
IC303	8-759-140-53	IC UPD4053BC				
IC331	8-759-513-46	IC TDA4510/V8				
IC332	8-759-505-39	IC TDA4660V2				
IC1301	1-235-534-11	CONTROL MODULE, PICTURE				(KV-X2952U ONLY)
		<COIL>				
L301	1-410-868-11	INDUCTOR	4.7UH			
L302	1-410-868-11	INDUCTOR	4.7UH			
L303	1-408-406-00	INDUCTOR	5.6UH			(KV-X2552U ONLY)
L338	1-408-409-00	INDUCTOR	10UH			
L1301	1-408-425-00	INDUCTOR	220UH			
L1302	1-408-419-00	INDUCTOR	68UH			
		<TRANSISTOR>				
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6				(KV-X2552U ONLY)
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q305	8-729-901-06	TRANSISTOR DTA144EK				
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q330	8-729-216-22	TRANSISTOR 2SA1162-G				
Q332	8-729-216-22	TRANSISTOR 2SA1162-G				
Q333	8-729-216-22	TRANSISTOR 2SA1162-G				
Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q381	8-729-901-00	TRANSISTOR DTC124EK				
Q382	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1301	8-729-901-00	TRANSISTOR DTC124EK				
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6				(KV-X2952U ONLY)
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
JR385	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
JR387	1-216-295-00	METAL GLAZE	0	5%	1/10W	(KV-X2952U ONLY)
JR390	1-216-295-00	METAL GLAZE	0	5%	1/10W	(KV-X2552U ONLY)
R301	1-249-409-11	CARBON	220	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	
R303	1-249-409-11	CARBON	220	5%	1/4W	
R304	1-249-409-11	CARBON	220	5%	1/4W	
R305	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R306	1-216-295-00	METAL GLAZE	0	5%	1/10W	(KV-X2952U ONLY)
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R308	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R309	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R310	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R311	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R314	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R315	1-216-031-00	METAL GLAZE	180	5%	1/10W	(KV-X2552U ONLY)
	1-216-027-00	METAL GLAZE	120	5%	1/10W	(KV-X2952U ONLY)
R316	1-216-031-00	METAL GLAZE	180	5%	1/10W	(KV-X2552U ONLY)
	1-216-027-00	METAL GLAZE	120	5%	1/10W	(KV-X2952U ONLY)
R317	1-216-031-00	METAL GLAZE	180	5%	1/10W	(KV-X2552U ONLY)
	1-216-027-00	METAL GLAZE	120	5%	1/10W	(KV-X2952U ONLY)
R318	1-249-429-11	CARBON	10K	5%	1/4W	
R319	1-249-409-11	CARBON	220	5%	1/4W	
R320	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R321	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R322	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KV-X2552U ONLY)
	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	(KV-X2952U ONLY)
R324	1-249-429-11	CARBON	10K	5%	1/4W	(KV-X2952U ONLY)
R325	1-216-073-00	METAL GLAZE	10K	5%	1/10W	(KV-X2952U ONLY)
R328	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	
R329	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	
R330	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	
R331	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R332	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R333	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R334	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R335	1-247-852-11	CARBON	7.5K	5%	1/4W	
R336	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R337	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R338	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R343	1-249-437-11	CARBON	47K	5%	1/4W	
R344	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R346	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R347	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R349	1-216-045-00	METAL GLAZE	680	5%	1/10W	(KV-X2552U ONLY)
R350	1-216-045-00	METAL GLAZE	680	5%	1/10W	(KV-X2552U ONLY)
R351	1-216-033-00	METAL GLAZE	220	5%	1/10W	(KV-X2552U ONLY)
R356	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R357	1-216-033-00	METAL GLAZE	220	5%	1/10W	(KV-X2952U ONLY)
R358	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R359	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R360	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R361	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R363	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R364	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R365	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R366	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R367	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R372	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R376	1-249-429-11	CARBON	10K	5%	1/4W	
R377	1-216-037-00	METAL GLAZE	330	5%	1/10W	(KV-X2552U ONLY)
	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	(KV-X2952U ONLY)
R378	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R379	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R380	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R381	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R382	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R383	1-216-115-00	METAL GLAZE	560K	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B F A

REF.NO.	PART NO.	DESCRIPTION				REMARK
R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R386	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	(KV-X2952U ONLY)
R387	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R388	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R389	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R390	1-216-033-00	METAL GLAZE	220	5%	1/10W	(KV-X2552U ONLY)
	1-216-025-00	METAL GLAZE	100	5%	1/10W	(KV-X2952U ONLY)
R392	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R393	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R394	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R395	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R396	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R397	1-216-066-00	METAL GLAZE	5.1K	5%	1/10W	
R398	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R399	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R401	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R402	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R403	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R404	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R405	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R406	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R407	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R410	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R412	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1302	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(KV-X2952U ONLY)
R1303	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(KV-X2952U ONLY)
R1304	1-216-097-00	METAL GLAZE	100K	5%	1/10W	(KV-X2952U ONLY)
R1308	1-216-295-00	METAL GLAZE	0	5%	1/10W	(KV-X2552U ONLY)
	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	(KV-X2952U ONLY)
		<CRYSTAL>				
X332	1-567-131-00	OSCILLATOR, CRYSTAL				
**********						
	*1-638-390-11	F BOARD				
		*******				
	*4-341-752-01	EYELET				
		<CONNECTOR>				
F61	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P				
F62	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P				
		<FUSE>				
F1601⚠	1-576-231-21	FUSE (H.B.C.) 4A/250V				
	1-533-230-11	HOLDER, FUSE; F1601				
		<SWITCH>				
S1701⚠	1-571-433-12	SWITCH, PUSH (AC POWER)				
**********						

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1632-026-A	A BOARD, COMPLETE				
		**********				
		<CONNECTOR>				
A11	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
A12	*1-565-393-11	CONNECTOR, BOARD TO BOARD				
A16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
A17	*1-564-886-11	PLUG, CONNECTOR 9P				
A19	*1-564-881-11	PLUG, CONNECTOR 4P				
		<CAPACITOR>				
C101	1-126-233-11	ELECT	22MF	20%	50V	
C102	1-126-103-11	ELECT	470MF	20%	16V	
C104	1-124-910-11	ELECT	47MF	20%	50V	
C106	1-126-233-11	ELECT	22MF	20%	50V	
C108	1-136-165-00	FILM	0.1MF	5%	50V	
C109	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C111	1-124-925-11	ELECT	2.2MF	20%	50V	
C115	1-124-925-11	ELECT	2.2MF	20%	50V	
C127	1-124-122-11	ELECT	100MF	20%	50V	
C128	1-124-910-11	ELECT	47MF	20%	50V	
C129	1-124-910-11	ELECT	47MF	20%	50V	
C151	1-124-910-11	ELECT	47MF	20%	50V	
C152	1-106-383-00	MYLAR	0.047MF	10%	100V	
C153	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C154	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C177	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C181	1-101-004-00	CERAMIC	0.01MF		50V	
C182	1-163-061-00	CERAMIC CHIP	0.015MF	10%	50V	
		<FILTER>				
CD101	1-404-684-11	DISCRIMINATOR, CERAMIC				
CF101	1-567-569-11	FILTER, CERAMIC				
		<DIODE>				
D105	8-719-911-19	DIODE 1SS119				
		<IC>				
IC103	8-759-979-62	IC PCF8574				
IC105	8-759-003-90	IC TBA129				
		<COIL>				
L100	1-410-683-31	INDUCTOR	560UH			
L101	1-408-225-00	INDUCTOR	3.3UH			
L102	1-408-413-00	INDUCTOR	22UH			
L108	1-408-410-00	INDUCTOR	12UH			
		<TRANSISTOR>				
Q113	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q114	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q115	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q116	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q125	8-729-900-89	TRANSISTOR DTC144ES				
Q126	8-729-901-06	TRANSISTOR DTA144EK				
Q181	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q182	8-729-901-01	TRANSISTOR DTC144EK				

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A **A1**

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
JR252	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR255	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR256	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR257	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR258	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R101	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R104	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R105	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R107	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R118	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R128	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R129	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R130	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R152	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R153	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R154	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R155	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R156	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R157	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R158	1-249-409-11	CARBON	220	5%	1/4W	
R159	1-249-409-11	CARBON	220	5%	1/4W	
R161	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R162	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R163	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R164	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R165	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R167	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R168	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R169	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R181	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R182	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R193	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R230	1-216-295-00	METAL GLAZE	0	5%	1/10W	
		<TUNER>				
TU101⚠	1-465-515-11	TUNER (SUF944PLL)				
		<IF BLOCK>				
V1F101	1-466-065-21	IF BLOCK (IFG-395S)				
**********						
*A-1632-028-A		A1 BOARD, COMPLETE				
		**********				
		<FILTER>				
BP1101	1-236-238-11	FILTER, BAND PASS				
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)				
		<CAPACITOR>				
C1101	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1102	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1103	1-124-907-11	ELECT	10MF	20%	50V	
C1104	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1105	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1106	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1107	1-124-907-11	ELECT	10MF	20%	50V	
C1108	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1109	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C1110	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C1111	1-164-157-11	CERAMIC CHIP	0.068MF	10%	25V	
C1113	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C1114	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C1115	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1116	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1117	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C1118	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1119	1-137-133-11	FILM	0.15MF	5%	63V	
C1120	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	
C1121	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1122	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1123	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1124	1-163-175-00	CERAMIC CHIP	56PF	5%	50V	
C1125	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1126	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1127	1-126-101-11	ELECT	100MF	20%	16V	
C1128	1-124-907-11	ELECT	10MF	20%	50V	
C1129	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1130	1-126-101-11	ELECT	100MF	20%	16V	
C1131	1-126-101-11	ELECT	100MF	20%	16V	
C1132	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1133	1-126-101-11	ELECT	100MF	20%	16V	
C1134	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1135	1-126-101-11	ELECT	100MF	20%	16V	
C1136	1-163-022-00	CERAMIC CHIP	0.012MF	10%	50V	
C1137	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C1138	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1139	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1140	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1141	1-126-101-11	ELECT	100MF	20%	16V	
C1142	1-163-022-00	CERAMIC CHIP	0.012MF	10%	50V	
C1143	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C1144	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1145	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1146	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1147	1-124-907-11	ELECT	10MF	20%	50V	
C1148	1-126-101-11	ELECT	100MF	20%	16V	
C1149	1-126-101-11	ELECT	100MF	20%	16V	
C1150	1-124-907-11	ELECT	10MF	20%	50V	
C1151	1-126-101-11	ELECT	100MF	20%	16V	
C1152	1-126-101-11	ELECT	100MF	20%	16V	
C1153	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1154	1-126-101-11	ELECT	100MF	20%	16V	
C1155	1-126-101-11	ELECT	100MF	20%	16V	
		<CONNECTOR>				
CNA114*	1-564-880-31	PLUG, CONNECTOR 3P				
CNA116*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
CNA117*	1-564-886-21	PLUG, CONNECTOR 9P				
CNA118*	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
CNA119*	1-564-881-11	PLUG, CONNECTOR 4P				
		<TRIMMER>				
CV1101	1-141-418-11	CAP, ADJ				

A1

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D1101	8-719-988-70	DIODE BB405B	
D1102	8-719-988-71	DIODE BB809	
D1103	8-719-400-18	DIODE MA152WK	
D1104	8-719-400-18	DIODE MA152WK	
D1105	8-719-914-44	DIODE DAP202K	
D1106	8-719-105-91	DIODE RD5.6M-B2	
D1107	8-719-400-18	DIODE MA152WK	
D1108	8-719-914-44	DIODE DAP202K	
		<IC>	
IC1101	8-759-511-88	IC TDA8732	
IC1102	8-759-066-32	IC SAA7280P/M3	
IC1103	8-759-900-02	IC SN74LS02N	
IC1104	8-759-900-72	IC NE5532P	
IC1105	8-759-900-72	IC NE5532P	
IC1106	8-759-140-53	IC UPD4053BC	
IC1107	8-759-504-22	IC TDA1543	
		<COIL>	
L1101	1-408-411-00	INDUCTOR 15UH	
L1102	1-410-119-11	INDUCTOR 1MMH	
L1103	1-410-119-11	INDUCTOR 1MMH	
L1104	1-408-405-00	INDUCTOR 4.7UH	
		<TRANSISTOR>	
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1104	8-729-901-01	TRANSISTOR DTC144EK	
Q1105	8-729-140-98	TRANSISTOR 2SD773-34	
Q1106	8-729-901-01	TRANSISTOR DTC144EK	
Q1107	8-729-901-01	TRANSISTOR DTC144EK	
Q1108	8-729-901-01	TRANSISTOR DTC144EK	
Q1109	8-729-901-01	TRANSISTOR DTC144EK	
Q1110	8-729-901-01	TRANSISTOR DTC144EK	
		<RESISTOR>	
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR2	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR4	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR6	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR12	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR13	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR15	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR16	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR17	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR18	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR25	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR26	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR27	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR28	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R1101	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R1102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1103	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1104	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1105	1-216-005-00	METAL GLAZE 15 5% 1/10W	
R1106	1-216-036-00	METAL GLAZE 300 5% 1/10W	
R1107	1-216-042-00	METAL GLAZE 510 5% 1/10W	
R1108	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R1109	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1110	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R1111	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1112	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R1113	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1115	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1117	1-216-084-00	METAL GLAZE 30K 5% 1/10W	
R1118	1-216-084-00	METAL GLAZE 30K 5% 1/10W	
R1119	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1120	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1121	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1122	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R1123	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1124	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1125	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R1127	1-216-133-00	METAL GLAZE 3.3M 5% 1/10W	
R1128	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1129	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1130	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1131	1-216-182-00	METAL GLAZE 220 5% 1/8W	
R1132	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1133	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1134	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1135	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1136	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R1137	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R1138	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1139	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1141	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1142	1-216-066-00	METAL GLAZE 5.1K 5% 1/10W	
R1143	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R1144	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1145	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1146	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1147	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1148	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1149	1-216-066-00	METAL GLAZE 5.1K 5% 1/10W	
R1150	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R1151	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1152	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1153	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1154	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1155	1-216-748-11	METAL GLAZE 39K 5% 1/10W	
R1156	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1157	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1158	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1159	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1160	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1161	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1162	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1164	1-216-234-00	METAL GLAZE 33K 5% 1/8W	
R1165	1-216-085-00	METAL GLAZE 33K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1166	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1167	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1168	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1169	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1170	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1171	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1172	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1173	1-216-035-00	METAL GLAZE	270	5%	1/10W	
		<CRYSTAL>				
X1101	1-579-283-11	VIBRATOR, CRYSTAL				
X1102	1-579-281-11	VIBRATOR, CRYSTAL				
**********						
	*A-1638-011-A	C BOARD, COMPLETE (KV-X2552U ONLY)				
		**********				
	*A-1638-013-A	C BOARD, COMPLETE (KV-X2952U ONLY)				
		**********				
	*4-379-160-01	COVER (REAR LID), CV				
	*4-379-167-01	COVER (MAIN), CV				
		<CONNECTOR>				
C71	*1-506-371-00	PIN, CONNECTOR 2P				
C72	*1-568-881-51	PIN, CONNECTOR 6P				
C81	*1-568-878-51	PIN, CONNECTOR 3P				
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
		<CAPACITOR>				
C703	1-102-980-00	CERAMIC	270PF	5%	50V	
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-978-00	CERAMIC	220PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-880-00	CERAMIC	47PF	5%	50V	
C712	1-102-980-00	CERAMIC	270PF	5%	50V	
C714	1-124-360-00	ELECT	1000MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
		<DIODE>				
D701	8-719-110-14	DIODE RD9.1ES-B3				
D702	8-719-911-19	DIODE 1SS119				
D703	8-719-911-19	DIODE 1SS119				
D704	8-719-911-19	DIODE 1SS119				
D705	8-719-911-19	DIODE 1SS119				
D706	8-719-911-19	DIODE 1SS119				
D707	8-719-911-19	DIODE 1SS119				
D708	8-719-911-19	DIODE 1SS119				
D709	8-719-911-19	DIODE 1SS119				
D710	8-719-911-19	DIODE 1SS119				
D711	8-719-300-33	DIODE RU-3AM				
D713	8-719-911-19	DIODE 1SS119				
		<JACK>				
J701	1-526-990-11	SOCKET, PICTURE TUBE				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<COIL>				
L704	1-408-415-00	INDUCTOR	33UH			
		<TRANSISTOR>				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-906-70	TRANSISTOR BF871				
Q704	8-729-200-17	TRANSISTOR 2SA1091-O				
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q706	8-729-906-70	TRANSISTOR BF871				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q709	8-729-906-70	TRANSISTOR BF871				
Q710	8-729-200-17	TRANSISTOR 2SA1091-O				
		<RESISTOR>				
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-249-412-11	CARBON	390	5%	1/4W	
R708	1-249-401-11	CARBON	47	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-465-00	METAL	68K	1%	1/4W	
R711	1-249-426-11	CARBON	5.6K	5%	1/4W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-471-00	METAL	120K	1%	1/4W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-249-409-11	CARBON	220	5%	1/4W	
R717	1-249-415-11	CARBON	680	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R719	1-249-401-11	CARBON	47	5%	1/4W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R729	1-249-416-11	CARBON	820	5%	1/4W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-249-415-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-215-493-00	METAL	1M	1%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-491-00	METAL	820K	1%	1/4W	(KV-X2552U ONLY)
	1-215-485-00	METAL	470K	1%	1/4W	(KV-X2952U ONLY)
R739	1-249-417-11	CARBON	1K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				
RV702	1-230-619-11	RES, ADJ, METAL GLAZE 110M				
RV703	1-237-749-11	RES, ADJ, CARBON 2200				
RV704	1-237-749-11	RES, ADJ, CARBON 2200				
**********						

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1642-033-A	D BOARD, COMPLETE (KV-X2552U ONLY)			
		**********			
	*A-1642-041-A	D BOARD, COMPLETE (KV-X2952U ONLY)			
		**********			
	4-200-001-01	HOLDER, IC			
	4-201-023-01	SPACER, INSULATING			
	*4-341-751-01	EYELET			
	*4-341-752-01	EYELET			
	*4-368-683-01	SPRING			
		<CAPACITOR>			
C002	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C003	1-124-925-11	ELECT	2.2MF	20%	50V
C004	1-124-120-11	ELECT	220MF	20%	16V
C005	1-124-903-11	ELECT	1MF	20%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C009	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C010	1-124-120-11	ELECT	220MF	20%	16V
C011	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C013	1-137-098-11	FILM	0.1MF	10%	100V
C014	1-137-098-11	FILM	0.1MF	10%	100V
C015	1-124-902-00	ELECT	0.47MF	20%	50V
C016	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C017	1-137-098-11	FILM	0.1MF	10%	100V
C018	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C019	1-137-094-11	FILM	0.047MF	10%	100V
C021	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C023	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C024	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C027	1-124-910-11	ELECT	47MF	20%	50V
C030	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C031	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C032	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C033	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C034	1-124-907-11	ELECT	10MF	20%	50V
C251	1-124-903-11	ELECT	1MF	20%	50V
C252	1-126-233-11	ELECT	22MF	20%	50V
C253	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C254	1-137-098-11	FILM	0.1MF	10%	100V
C255	1-124-636-00	ELECT	3300MF	20%	25V
C261	1-124-903-11	ELECT	1MF	20%	50V
C262	1-126-233-11	ELECT	22MF	20%	50V
C263	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C264	1-137-098-11	FILM	0.1MF	10%	100V
C265	1-124-564-11	ELECT	4700MF	20%	25V
C270	1-137-035-11	FILM	0.47MF	10%	100V
C274	1-137-035-11	FILM	0.47MF	10%	100V
C501	1-124-927-11	ELECT	4.7MF	20%	50V
C502	1-124-927-11	ELECT	4.7MF	20%	50V
C503	1-137-049-11	FILM	0.015MF	10%	400V
C504	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C505	1-108-794-11	MYLAR	0.0015MF	5%	50V
C506	1-137-102-11	FILM	0.022MF	10%	250V
C507	1-137-033-11	FILM	0.33MF	10%	100V
C508	1-137-102-11	FILM	0.022MF	10%	250V
C509	1-137-098-11	FILM	0.1MF	10%	100V
C510	1-161-959-00	CERAMIC	22PF	10%	500V
C511	1-108-686-11	MYLAR	0.0033MF	10%	100V
C512	1-137-098-11	FILM	0.1MF	10%	100V
C513	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C514	1-137-031-11	FILM	0.22MF	10%	100V
C515	1-124-903-11	ELECT	1MF	20%	50V
C516	1-108-680-11	MYLAR	0.001MF	10%	100V
C517	1-124-252-00	ELECT	0.33MF	20%	50V
C518	1-124-902-00	ELECT	0.47MF	20%	50V
C519	1-136-173-00	FILM	0.47MF	5%	50V
					(KV-X2552U ONLY)
	1-136-171-00	FILM	0.33MF	5%	50V
					(KV-X2952U ONLY)
C520	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C521	1-137-098-11	FILM	0.1MF	10%	100V
C522	1-124-122-11	ELECT	100MF	20%	50V
C523	1-108-680-11	MYLAR	0.001MF	10%	100V
C524	1-108-798-11	MYLAR	0.0033MF	5%	50V
C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C526	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
					(KV-X2552U ONLY)
	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
					(KV-X2952U ONLY)
C527	1-137-098-11	FILM	0.1MF	10%	100V
C531	1-124-190-00	ELECT	680MF	10%	25V
C532	1-124-122-11	ELECT	100MF	20%	50V
C533	1-137-096-11	FILM	0.068MF	10%	100V
C534	1-124-120-11	ELECT	220MF	20%	16V
C536	1-131-365-00	TANTALUM	10MF	10%	16V
C537	1-124-903-11	ELECT	1MF	20%	50V
C538	1-108-680-11	MYLAR	0.001MF	10%	100V
C539	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C540	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C592	1-124-122-11	ELECT	100MF	20%	50V
C593	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C601 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C602 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C603 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C604 ⚠	1-125-318-11	ELECT(BLOCK)	220MF	20%	400V
C605	1-124-484-11	ELECT	220MF	20%	35V
C606	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C607	1-137-028-11	FILM	1MF	10%	63V
C608	1-124-927-11	ELECT	4.7MF	20%	50V
C611	1-124-910-11	ELECT	47MF	20%	50V
C612	1-108-680-11	MYLAR	0.001MF	10%	100V
C613	1-136-539-11	FILM	0.0022MF	3%	2KV
C614	1-102-030-00	CERAMIC	330PF	10%	500V
C615	1-128-142-11	ELECT	1500MF	20%	25V
C616	1-102-030-00	CERAMIC	330PF	10%	500V
C617	1-124-122-11	ELECT	100MF	20%	50V
C618	1-162-115-00	CERAMIC	330PF	10%	2KV
C619	1-128-320-11	ELECT	2200MF	20%	16V
C620	1-136-173-00	FILM	0.47MF	5%	50V
C621	1-124-347-00	ELECT	100MF	20%	160V
C622	1-128-320-11	ELECT	2200MF	20%	16V
C623	1-124-910-11	ELECT	47MF	20%	50V
C624	1-124-122-11	ELECT	100MF	20%	50V
C625	1-124-360-00	ELECT	1000MF	20%	16V
C626	1-124-907-11	ELECT	10MF	20%	50V
C627	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C631	1-124-927-11	ELECT	4.7MF	20%	50V
C632	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C801	1-126-105-11	ELECT	1000MF	20%	35V
C802	1-102-030-00	CERAMIC	330PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-137-098-11	FILM	0.1MF	10%	100V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-123-024-21	ELECT	33MF		160V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C811	1-136-113-00	FILM	2MF	5% 200V	
C812	1-124-634-11	ELECT	1MF	20% 250V	
C813	1-102-212-00	CERAMIC	820PF	10% 500V	
C814 ⚠	1-161-731-51	CERAMIC	0.001MF	10% 2KV	
C815	1-136-111-00	FILM	1MF	5% 200V	
				(KV-X2552U ONLY)	
	1-136-540-11	FILM	0.82MF	5% 200V	
				(KV-X2952U ONLY)	
C817 ⚠	1-136-565-11	FILM	0.015MF	3% 1.4KV	
				(KV-X2552U ONLY)	
⚠	1-136-591-11	FILM	0.017MF	3% 1.4KV	
				(KV-X2952U ONLY)	
C818 ⚠	1-129-721-51	FILM	0.039MF	10% 630V	
C819 ⚠	1-161-731-51	CERAMIC	0.001MF	10% 2KV	
C820	1-137-046-11	FILM	0.0082MF	10% 400V	
C821 ⚠	1-162-116-51	CERAMIC	680PF	10% 2KV	
				(KV-X2552U ONLY)	
⚠	1-162-134-51	CERAMIC	470PF	10% 2KV	
				(KV-X2952U ONLY)	
C822	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C823	1-137-043-11	FILM	0.0047MF	10% 400V	
C824	1-102-212-00	CERAMIC	820PF	10% 500V	
C825	1-137-102-11	FILM	0.022MF	10% 250V	
C1602 ⚠	1-136-516-11	FILM	0.1MF	20% 300V	
C1603 ⚠	1-164-246-51	CERAMIC	0.0022MF	20% 400V	
C1607 ⚠	1-161-964-61	CERAMIC	0.0047MF	250V	
		<FILTER>			
CF001	1-577-364-11	VIBRATOR, CERAMIC			
CF501	1-567-888-11	OSCILLATOR, CERAMIC			
		<CONNECTOR>			
D1	*1-568-881-51	PIN, CONNECTOR 6P			
D2	*1-568-882-51	PIN, CONNECTOR 7P			
D11	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D12	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
D21	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D22	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D31	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D32	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			
D41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
D44	*1-568-881-51	PIN, CONNECTOR 6P			
D45	*1-568-881-51	PIN, CONNECTOR 6P			
D51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
D62	*1-565-395-11	PIN, CONNECTOR 3P			
D65	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
D66	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
D82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
D83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
D84	*1-580-798-11	CONNECTOR PIN (DY) 6P			
D88	*1-568-878-51	PIN, CONNECTOR 3P (KV-X2952U ONLY)			
D801	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
		<DIODE>			
D001	8-719-109-97	DIODE RD6.8ES-B2			
D002	8-719-109-97	DIODE RD6.8ES-B2			
D003	8-719-911-19	DIODE 1SS119			
D005	8-719-109-89	DIODE RD5.6ES-B2			
D006	8-719-982-24	DIODE MTZJ-33A			
D007	8-719-982-08	DIODE MTZJ-3.9B			
D009	8-719-109-89	DIODE RD5.6ES-B2			
D010	8-719-921-54	DIODE MTZJ-6.2B			
D011	8-719-921-54	DIODE MTZJ-6.2B			
D012	8-719-911-19	DIODE 1SS119			
D013	8-719-109-97	DIODE RD6.8ES-B2			
D271	8-719-921-88	DIODE MTZJ-13B			
D272	8-719-911-19	DIODE 1SS119			
D501	8-719-911-19	DIODE 1SS119			
D504	8-719-911-55	DIODE U05G			
D506	8-719-800-76	DIODE 1SS226 (KV-X2552U ONLY)			
D508	8-719-911-19	DIODE 1SS119			
D509	8-719-911-19	DIODE 1SS119			
D511	8-719-911-55	DIODE U05G			
D512	8-719-911-55	DIODE U05G			
D513	8-719-010-34	DIODE UZ-4.7BSC			
D514	8-719-911-19	DIODE 1SS119 (KV-X2952U ONLY)			
D515	8-719-911-19	DIODE 1SS119 (KV-X2952U ONLY)			
D601 ⚠	8-719-510-63	DIODE D4SB60L-F			
D602	8-719-300-33	DIODE RU-3AM			
D603	8-719-911-55	DIODE U05G			
D604	8-719-911-55	DIODE U05G			
D605	8-719-911-55	DIODE U05G			
D606	8-719-300-33	DIODE RU-3AM			
D607	8-719-300-33	DIODE RU-3AM			
D608	8-719-300-33	DIODE RU-3AM			
D609	8-719-982-24	DIODE MTZJ-33A			
D610	8-719-300-59	DIODE CTU-12S			
D611	8-719-900-26	DIODE ERD29-08J			
D612	8-719-300-59	DIODE CTU-12S			
D613	8-719-979-85	DIODE EGP20G			
D614	8-719-979-85	DIODE EGP20G			
D616	8-719-921-54	DIODE MTZJ-6.2B			
D617	8-719-911-19	DIODE 1SS119			
D618	8-719-109-89	DIODE RD5.6ES-B2			
D619	8-719-982-24	DIODE MTZJ-33A			
D620	8-719-800-76	DIODE 1SS226			
D621	8-719-982-24	DIODE MTZJ-33A			
D622	8-719-911-19	DIODE 1SS119			
D623	8-719-911-19	DIODE 1SS119			
D624	8-719-911-19	DIODE 1SS119			
D630	8-719-921-91	DIODE MTZJ-15A			
D801	8-719-300-33	DIODE RU-3AM			
D802	8-719-300-33	DIODE RU-3AM			
D803	8-719-976-64	DIODE RGP02-17			
D804	8-719-911-55	DIODE U05G			
D805	8-719-911-55	DIODE U05G			
D806	8-719-945-80	DIODE ERC06-15S			
D807	8-719-945-80	DIODE ERC06-15S			
D808	8-719-900-26	DIODE ERD29-08J			
		<IC>			
IC001	8-759-047-60	IC SDA20560-A012			
IC002	8-759-000-47	IC MC14051BCP			
IC003	8-759-945-58	IC RC4558P			
IC005	8-759-748-56	IC SDA2546			
IC251	8-759-988-94	IC TDA2050			
	4-812-134-00	RIVET NYLON, 3.5; IC251			
IC261	8-759-988-94	IC TDA2050			
	4-812-134-00	RIVET NYLON, 3.5; IC261			
IC501	8-759-970-73	IC TEA2028B			
IC502	8-759-944-57	IC TDA8170			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
IC601	8-759-988-95	IC TEA2260	
IC604	8-759-510-52	IC TEA7605	
IC608	8-759-929-62	IC LM7812CT	
		<COIL>	
L501	1-408-225-00	INDUCTOR 3.3UH	
L601	1-420-872-00	COIL, AIR CORE	
L602	1-410-396-41	FERRITE BEAD INDUCTOR	
L603	1-410-396-41	FERRITE BEAD INDUCTOR	
L604	1-410-671-31	INDUCTOR 47UH	
L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
L606	1-412-529-11	INDUCTOR 22UH	
L607	1-410-671-31	INDUCTOR 47UH	
L801	1-459-087-00	COIL,HCC DUST CORE 3.9MMH	(KV-X2952U ONLY)
L803	1-459-104-00	COIL, WITH CORE	
L804	1-408-239-00	INDUCTOR 4.7MMH	
L805	1-459-755-11	COIL, HORIZONTAL LINEARITY	(KV-X2552U ONLY)
	1-459-907-11	COIL, HORIZONTAL LINEARITY	(KV-X2952U ONLY)
L806	1-459-111-00	COIL, DRAM CORE (CDI)	(KV-X2552U ONLY)
	1-459-087-00	COIL,HCC DUST CORE 3.9MMH	(KV-X2952U ONLY)
L809	1-420-872-00	COIL, AIR CORE	
L810	1-421-982-11	PMC	(KV-X2552U ONLY)
	1-421-794-21	TRANSFORMER, FERRITE (PMT)	(KV-X2952U ONLY)
		<TRANSFORMER>	
LF1602	⚠ 1-421-776-21	LFT	
T601	⚠ 1-450-038-11	S.R.T	(KV-X2552U ONLY)
	⚠ 1-450-037-11	S.R.T	(KV-X2952U ONLY)
T602	⚠ 1-424-277-11	TRANSFORMER, TRIGGER PULSE	
T801	1-437-090-00	HDT	
T802	⚠ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)	
		<IC LINK>	
PS601	⚠ 1-532-984-91	LINK, IC (ICP-N50) 2A	
PS602	⚠ 1-532-984-91	LINK, IC (ICP-N50) 2A	
PS603	⚠ 1-532-679-91	LINK, IC (ICP-N15) 0.6A	
PS604	⚠ 1-532-984-91	LINK, IC (ICP-N50) 2A	
		<TRANSISTOR>	
Q001	8-729-901-01	TRANSISTOR DTC144EK	
Q002	8-729-901-01	TRANSISTOR DTC144EK	
Q003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q005	8-729-901-01	TRANSISTOR DTC144EK	
Q006	8-729-901-01	TRANSISTOR DTC144EK	
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-216-22	TRANSISTOR 2SA1162-G	
Q505	8-729-140-96	TRANSISTOR 2SD774-34	
Q506	8-729-140-97	TRANSISTOR 2SB734-34	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
Q598	8-729-216-22	TRANSISTOR 2SA1162-G	
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-320-62	TRANSISTOR 2SD789-34	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q804	8-729-304-50	TRANSISTOR 2SD1941-06	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	

<RESISTOR>

JR1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR3	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR4	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR7	1-216-296-00	METAL GLAZE	0	5%	1/8W
R001	1-216-041-00	METAL GLAZE	470	5%	1/10W
R002	1-216-041-00	METAL GLAZE	470	5%	1/10W
R003	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R004	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R005	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R006	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R007	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R008	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R009	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R010	1-216-041-00	METAL GLAZE	470	5%	1/10W
R012	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R013	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R014	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R015	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R016	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R017	1-216-748-11	METAL GLAZE	39K	5%	1/10W
R018	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R019	1-216-025-00	METAL GLAZE	100	5%	1/10W
R020	1-216-025-00	METAL GLAZE	100	5%	1/10W
R021	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R022	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R024	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R025	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R026	1-216-182-00	METAL GLAZE	220	5%	1/8W
R027	1-216-025-00	METAL GLAZE	100	5%	1/10W
R028	1-216-025-00	METAL GLAZE	100	5%	1/10W
R029	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R030	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R031	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R032	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R033	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R034	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R035	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R036	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R037	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R038	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R039	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R040	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R041	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R042	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R043	1-216-041-00	METAL GLAZE	470	5%	1/10W
R044	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R045	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION				REMARK
R046	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R047	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R048	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R049	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R050	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R051	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R052	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R053	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R054	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R055	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R056	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R057	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R058	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R059	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R060	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R061	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R062	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R063	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R064	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R065	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R066	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R067	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R068	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R069	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R070	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R071	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R072	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R073	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R075	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R076	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R077	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R078	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R079	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R080	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R081	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R083	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R084	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R085	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R086	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R087	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R088	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R093	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R094	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R095	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R096	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R098	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R251	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R252	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R254	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R255	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R256	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R257	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R258	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R259	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R261	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R262	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R263	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R264	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R265	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R266	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R267	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R268	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R269	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R270	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R271	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R272	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R274	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R500	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R501	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R502	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R503	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R504	1-249-420-11	CARBON	1.8K	5%	1/4W	
R505	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R506	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R509	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R514	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R515	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R517	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R518	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R519	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R520	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R521	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R522	1-215-469-00	METAL	100K	1%	1/4W	
R523	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R524	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R525	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KV-X2552U ONLY)
R526	1-249-409-11	CARBON	220	5%	1/4W	F
R527	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R528	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R529	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R532	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R533	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R534	1-216-119-00	METAL GLAZE	820K	5%	1/10W	
R535	1-249-749-00	CARBON	2.2M	5%	1/4W	
R536	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R537	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R538	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R539	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R540	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R541	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R542	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	
R543	1-249-451-11	CARBON	2.2	5%	1/4W	
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R546	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R547	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-216-454-11	METAL OXIDE	390	5%	2W	F
R550	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R551	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	
R554	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R555	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R556	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R557	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R558	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R559	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R560	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R561	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
						(KV-X2952U ONLY)
R570	1-216-045-00	METAL GLAZE	680	5%	1/10W	(KV-X2952U ONLY)

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

D VM

REF.NO.	PART NO.	DESCRIPTION				REMARK
R591	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R592	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R593	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R594	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R597	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R598	1-215-900-11	METAL OXIDE	22K	5%	2W F	
R600	1-249-381-11	CARBON	1	5%	1/4W	
R601	1-216-353-00	METAL OXIDE	2.2	5%	1W F	
R603	1-216-469-11	METAL OXIDE	12	5%	3W F	
R604	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R605	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R606	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R607	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	(KV-X2552U ONLY)
	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(KV-X2952U ONLY)
R608	1-216-488-11	METAL OXIDE	18K	5%	3W F	
R609	1-216-007-00	METAL GLAZE	18	5%	1/10W	
R610	1-244-941-00	CARBON	680K	5%	1/2W	
R611	1-216-015-00	METAL GLAZE	39	5%	1/10W	
R612	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R613	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R614	1-205-758-11	WIREWOUND	100	10%	10W F	
R616	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R617	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R618	1-216-431-11	METAL OXIDE	560	5%	1W F	
R619	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R620	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R621	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R622	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R623	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R624	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R625	1-215-865-11	METAL OXIDE	220	5%	1W F	
R626	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R628	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R629	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R631	1-216-465-11	METAL OXIDE	27K	5%	2W	(KV-X2552U ONLY)
R633	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R634	1-216-430-11	METAL OXIDE	390	5%	1W F	
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R636	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R643	1-217-189-21	WIREWOUND	0.12	5%	2W F	
R651	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R653	1-205-758-11	WIREWOUND	100	10%	10W F	
R802	1-249-443-11	CARBON	0.47	5%	1/4W F	
R805	1-249-448-11	CARBON	1.2	5%	1/4W F	
R806	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R807	1-215-869-11	METAL OXIDE	1K	5%	1W F	
R809	1-202-821-11	SOLID	1.8K	10%	1/2W	
R810	1-202-818-00	SOLID	1K	10%	1/2W	
R811	1-215-882-00	METAL OXIDE	22	5%	2W F	
R812	1-249-494-11	CARBON	68K	5%	1/2W	(KV-X2552U ONLY)
	1-247-281-00	CARBON	51K	5%	1/2W	(KV-X2952U ONLY)
R815	1-215-884-11	METAL OXIDE	47	5%	2W F	
R816	1-215-868-00	METAL OXIDE	680	5%	1W F	
R817	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W F	
R822	1-217-778-11	FUSIBLE	1K	5%	1W F	
R825	1-216-345-11	METAL OXIDE	0.47	5%	1W F	
R826	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R827	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R828	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R829	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R831	1-249-451-11	CARBON	2.2	5%	1/4W	
R1602⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R1603⚠	1-217-328-11	WIREWOUND	2.7	10%	7W F	
R1605⚠	1-218-265-91	METAL GLAZE	8.2M	5%	1W	
R5501	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R5503	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	(KV-X2552U ONLY)
	1-216-001-00	METAL GLAZE	10	5%	1/10W	(KV-X2952U ONLY)
R5504	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R5505	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R5506	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(KV-X2952U ONLY)

<VARIABLE RESISTOR>

RV501	1-238-013-11	RES, ADJ, CARBON	2.2K
RV502	1-238-016-11	RES, ADJ, CARBON	10K
RV601	1-238-011-11	RES, ADJ, CARBON	470

<SPARK GAP>

SG801	1-519-422-11	GAP, SPARK	

<THERMISTOR>

THP601⚠	1-808-059-32	THERMISTOR, POSITIVE	

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*1-634-193-11 VM BOARD (KV-X2952U ONLY)
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<CAPACITOR>

C751	1-101-361-00	CERAMIC	150PF	5%	50V
C752	1-108-629-11	MYLAR	0.018MF	10%	100V
C753	1-137-047-11	FILM	0.01MF	10%	400V
C754	1-102-980-00	CERAMIC	270PF	5%	50V
C757	1-108-692-11	MYLAR	0.01MF	10%	200V
C759	1-124-907-11	ELECT	10MF	20%	50V
C760	1-124-917-11	ELECT	33MF	20%	50V
C761	1-101-006-00	CERAMIC	0.047MF		50V
C762	1-137-047-11	FILM	0.01MF	10%	400V

<COIL>

L751	1-408-413-00	INDUCTOR	22UH
L770	1-410-665-31	INDUCTOR	15UH

<TRANSISTOR>

Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q753	8-729-140-97	TRANSISTOR 2SB734-34
Q754	8-729-140-96	TRANSISTOR 2SD774-34

<RESISTOR>

R751	1-249-418-11	CARBON	1.2K	5%	1/4W

VM V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R752	1-249-426-11	CARBON	5.6K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	
R754	1-249-434-11	CARBON	27K	5%	1/4W	
R755	1-249-405-11	CARBON	100	5%	1/4W	
R756	1-249-419-11	CARBON	1.5K	5%	1/4W	
R757	1-249-405-11	CARBON	100	5%	1/4W	
R758	1-249-409-11	CARBON	220	5%	1/4W	
R760	1-249-411-11	CARBON	330	5%	1/4W	
R761	1-249-429-11	CARBON	10K	5%	1/4W	
R762	1-247-895-00	CARBON	470K	5%	1/4W	
R763	1-249-429-11	CARBON	10K	5%	1/4W	
R764	1-249-455-11	CARBON	4.7	5%	1/4W	F
R765	1-249-455-11	CARBON	4.7	5%	1/4W	F
R766	1-247-753-11	CARBON	1.2K	5%	1/2W	
R767	1-247-751-11	CARBON	820	5%	1/2W	
R768	1-215-887-00	METAL OXIDE	150	5%	2W	F
R769	1-212-889-00	FUSIBLE	220	5%	1/4W	F

<CONNECTOR>

VM73	*1-568-878-51	PIN, CONNECTOR 3P	
VM88	*1-568-878-51	PIN, CONNECTOR 3P	

****

*A-1645-015-A V BOARD, COMPLETE
****

<CAPACITOR>

C1	1-126-101-11	ELECT	100MF	20%	16V
C2	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3	1-124-120-11	ELECT	220MF	20%	16V
C4	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C5	1-124-120-11	ELECT	220MF	20%	16V
C6	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C7	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C8	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C9	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C10	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C11	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C12	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C13	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C14	1-124-927-11	ELECT	4.7MF	20%	50V
C15	1-124-927-11	ELECT	4.7MF	20%	50V
C16	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C17	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C18	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C26	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C29	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C32	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C33	1-163-038-00	CERAMIC CHIP	0.1MF		25V

<CONNECTOR>

CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD

<DIODE>

D1	8-719-105-91	DIODE RD5.6M-B2
D3	8-719-914-44	DIODE DAP202K
D4	8-719-400-18	DIODE MA152WK
D5	8-719-914-44	DIODE DAP202K
D6	8-719-400-18	DIODE MA152WK
D7	8-719-105-52	DIODE RD3.6M-B2
D9	8-719-106-17	DIODE RD6.8M-B2

<IC>

IC1	8-759-513-27	IC MAB8461P-W208
IC2	8-759-045-54	IC SAA5246P/E/M4A
IC3	8-759-510-49	IC FCB61C65L-70P

<COIL>

L1	1-408-403-00	INDUCTOR	3.3UH
L2	1-408-407-00	INDUCTOR	6.8UH
L3	1-408-407-00	INDUCTOR	6.8UH
L4	1-408-407-00	INDUCTOR	6.8UH

<IC LINK>

PS1	⚠1-532-679-91	LINK, IC (ICP-N15) 0.6A	

<TRANSISTOR>

Q1	8-729-900-53	TRANSISTOR DTC114EK
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

JR01	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR02	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR03	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR08	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR09	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR11	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR17	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR18	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR23	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR202	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR203	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR205	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR206	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR209	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR210	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR212	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR214	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR215	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR216	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR217	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR218	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR227	1-216-295-00	METAL GLAZE	0	5%	1/10W
R1	1-218-326-11	METAL GLAZE	470	5%	1/2W
R2	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R3	1-216-049-00	METAL GLAZE	1K	5%	1/10W

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V H1 H2

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R5	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R6	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R7	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R8	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R9	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	
R10	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R11	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R12	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R13	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R14	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R15	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R16	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R17	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R18	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R19	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R20	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R21	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R22	1-216-168-00	METAL GLAZE	56	5%	1/8W	
R23	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R24	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R25	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R26	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R29	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R30	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R31	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R32	1-216-076-00	METAL GLAZE	13K	5%	1/10W	
R33	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R34	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R35	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R36	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R37	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R38	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R39	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R40	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R41	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R42	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R44	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R46	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R47	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R48	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R49	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R50	1-216-296-00	METAL GLAZE	0	5%	1/8W	
		<VARIABLE RESISTOR>				
RV1	1-238-012-11	RES, ADJ, CARBON 1K				
		<CRYSTAL>				
X1	1-579-266-31	CRYSTAL VIBRATOR				
X3	1-577-082-11	VIBRATOR, CERAMIC				
**********						
	*1-638-744-12	H1 BOARD				
		********				
		<CAPACITOR>				
C1651	1-102-106-00	CERAMIC	100PF	10%	50V	
C1652	1-102-106-00	CERAMIC	100PF	10%	50V	
C1653	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C1655	1-102-074-00	CERAMIC	0.001MF	10%	50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<CONNECTOR>				
H1-1	*1-568-881-51	PIN, CONNECTOR 6P				
H1-02	1-568-678-11	TERMINAL BLOCK, S 3P				
H1-4	*1-568-879-51	PIN, CONNECTOR 4P				
H1-05	1-562-837-11	JACK				
H1-23	*1-568-879-51	PIN, CONNECTOR 4P				
H1-43	*1-564-512-11	PLUG, CONNECTOR 9P				
		<RESISTOR>				
R1651	1-249-413-11	CARBON	470	5%	1/4W	
R1652	1-249-413-11	CARBON	470	5%	1/4W	
		<SWITCH>				
S1651	1-571-532-21	SWITCH, TACTIL				
S1652	1-571-532-21	SWITCH, TACTIL				
S1653	1-571-532-21	SWITCH, TACTIL				
**********						
	*1-638-392-11	H2 BOARD				
		********				
	*4-374-987-01	GUIDE, LIGHT				
	*4-381-686-01	BRACKET (B), LIGHT GUIDE				
		<DIODE>				
D1651	8-719-948-31	DIODE LD-201VR				
	*4-201-076-01	HOLDER, LED; D1651				
D1652	8-719-948-31	DIODE LD-201VR				
	*4-201-076-01	HOLDER, LED; D1652				
D1654	8-719-948-31	DIODE LD-201VR				
	*4-201-076-01	HOLDER, LED; D1654				
		<CONNECTOR>				
H2-2	*1-568-882-51	PIN, CONNECTOR 7P				
		<IC>				
IC1651	8-741-101-75	IC SBX1610-11				
		<RESISTOR>				
R1662	1-249-413-11	CARBON	470	5%	1/4W	
**********						

J1

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1651-018-A	J1 BOARD, COMPLETE (KV-X2552U ONLY)			
		**********			
	*A-1651-020-A	J1 BOARD, COMPLETE (KV-X2952U ONLY)			
		**********			
		<CAPACITOR>			
C203	1-124-925-11	ELECT	2.2MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-124-925-11	ELECT	2.2MF	20%	50V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V
C214	1-137-045-11	FILM	0.0068MF	10%	400V
C217	1-137-045-11	FILM	0.0068MF	10%	400V
C218	1-137-102-11	FILM	0.022MF	10%	250V
C219	1-137-102-11	FILM	0.022MF	10%	250V
C220	1-108-686-11	MYLAR	0.0033MF	10%	100V
C221	1-108-686-11	MYLAR	0.0033MF	10%	100V
C222	1-137-095-11	FILM	0.056MF	10%	100V
C223	1-137-095-11	FILM	0.056MF	10%	100V
C224	1-137-047-11	FILM	0.01MF	10%	400V
C225	1-136-173-00	FILM	0.47MF	5%	50V
C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-137-102-11	FILM	0.022MF	10%	250V
C228	1-137-104-11	FILM	0.033MF	10%	250V
C229	1-137-049-11	FILM	0.015MF	10%	400V
C230	1-137-049-11	FILM	0.015MF	10%	400V
C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-124-907-11	ELECT	10MF	20%	50V
C233	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C234	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C235	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C236	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C237	1-124-902-00	ELECT	0.47MF	20%	50V
C238	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C239	1-126-103-11	ELECT	470MF	20%	16V
C240	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C241	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C242	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C243	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C244	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C245	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C1401	1-124-907-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1404	1-137-098-11	FILM	0.1MF	10%	100V
C1405	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1406	1-137-098-11	FILM	0.1MF	10%	100V
C1407	1-124-910-11	ELECT	47MF	20%	50V
C1408	1-124-122-11	ELECT	100MF	20%	50V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-124-907-11	ELECT	10MF	20%	50V
C1411	1-124-907-11	ELECT	10MF	20%	50V
C1412	1-124-910-11	ELECT	47MF	20%	50V
C1413	1-124-910-11	ELECT	47MF	20%	50V
C1414	1-124-907-11	ELECT	10MF	20%	50V
C1415	1-137-098-11	FILM	0.1MF	10%	100V
C1416	1-137-098-11	FILM	0.1MF	10%	100V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1425	1-124-902-00	ELECT	0.47MF	20%	50V
C1426	1-124-902-00	ELECT	0.47MF	20%	50V
C1427	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1428	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1429	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1431	1-126-529-11	ELECT	0.47MF	20%	50V
C1432	1-124-902-00	ELECT	0.47MF	20%	50V
C1433	1-124-122-11	ELECT	100MF	20%	50V
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1438	1-137-047-11	FILM	0.01MF	10%	400V
C1439	1-137-047-11	FILM	0.01MF	10%	400V
C1440	1-124-907-11	ELECT	10MF	20%	50V
C1441	1-124-907-11	ELECT	10MF	20%	50V
C1442	1-137-098-11	FILM	0.1MF	10%	100V
C1443	1-137-098-11	FILM	0.1MF	10%	100V
C1444	1-124-910-11	ELECT	47MF	20%	50V
C1445	1-102-824-00	CERAMIC	470PF	5%	50V
C1446	1-102-824-00	CERAMIC	470PF	5%	50V
C1501	1-124-927-11	ELECT	4.7MF	20%	50V
C1502	1-124-903-11	ELECT	1MF	20%	50V
C1503	1-108-680-11	MYLAR	0.001MF	10%	100V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-137-094-11	FILM	0.047MF	10%	100V
C1507	1-108-686-11	MYLAR	0.0033MF	10%	100V
C1508	1-124-903-11	ELECT	1MF	20%	50V
C1509	1-124-903-11	ELECT	1MF	20%	50V
C1511	1-124-927-11	ELECT	4.7MF	20%	50V
C1512	1-137-045-11	FILM	0.0068MF	10%	400V (KV-X2552U ONLY)
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C1514	1-137-102-11	FILM	0.022MF	10%	250V (KV-X2552U ONLY)
C1515	1-102-117-00	CERAMIC	820PF	10%	50V (KV-X2552U ONLY)
		<CONNECTOR>			
CN1401	1-565-838-11	JACK BLOCK, PIN 2P			
J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
J1-43	*1-564-524-11	PLUG, CONNECTOR 9P			
J1-44	*1-564-527-11	PLUG, CONNECTOR 12P			
J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
		<DIODE>			
D201	8-719-110-14	DIODE RD9.1ES-B3			
D202	8-719-110-14	DIODE RD9.1ES-B3			
D205	8-719-110-03	DIODE RD7.5ES-B2			
D206	8-719-110-03	DIODE RD7.5ES-B2			
D1401	8-719-110-03	DIODE RD7.5ES-B2			
D1403	8-719-110-03	DIODE RD7.5ES-B2			
D1404	8-719-110-03	DIODE RD7.5ES-B2			
D1405	8-719-110-03	DIODE RD7.5ES-B2			
D1406	8-719-110-03	DIODE RD7.5ES-B2			
D1407	8-719-921-77	DIODE MTZN-10C			
D1408	8-719-110-14	DIODE RD9.1ES-B3			
D1409	8-719-110-14	DIODE RD9.1ES-B3			
D1410	8-719-110-14	DIODE RD9.1ES-B3			
D1415	8-719-110-03	DIODE RD7.5ES-B2			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D1418	8-719-110-03	DIODE RD7.5ES-B2	
D1419	8-719-110-03	DIODE RD7.5ES-B2	
D1420	8-719-110-03	DIODE RD7.5ES-B2	
D1421	8-719-110-03	DIODE RD7.5ES-B2	
D1422	8-719-110-03	DIODE RD7.5ES-B2	
D1423	8-719-110-03	DIODE RD7.5ES-B2	
D1424	8-719-110-03	DIODE RD7.5ES-B2	
D1425	8-719-110-03	DIODE RD7.5ES-B2	
D1426	8-719-110-03	DIODE RD7.5ES-B2	
D1501	8-719-300-33	DIODE RU-3AM	
D1502	8-719-911-19	DIODE 1SS119	
D1503	8-719-911-19	DIODE 1SS119	
D1504	8-719-911-19	DIODE 1SS119	
D1505	8-719-911-19	DIODE 1SS119	
D1506	8-719-982-33	DIODE MTZJ-36D	
D1507	8-719-911-19	DIODE 1SS119	
D1510	8-719-911-19	DIODE 1SS119	
		<IC>	
IC201	8-759-013-17	IC TDA6200	
IC1401	8-752-053-17	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A	
IC1403	8-759-140-53	IC UPD4053BC	
IC1501	8-759-942-16	IC TEA2031A	
		<JACK>	
J1402	1-561-534-41	SOCKET 21P	
J1403	1-561-534-41	SOCKET 21P	
		<TRANSISTOR>	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
		<RESISTOR>	
R201	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R202	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W	
R203	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R204	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R205	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R206	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R207	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R208	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R209	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R210	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R211	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R212	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R213	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R214	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R215	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R216	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R217	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R218	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R219	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R220	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R221	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R222	1-216-041-00	METAL GLAZE 470 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R223	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R224	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R225	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R226	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R227	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R228	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R229	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R230	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R231	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R232	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R233	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R234	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R235	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R236	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R240	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R241	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R242	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R243	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R244	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R245	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R246	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R247	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R248	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R249	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R250	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1400	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1401	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R1402	1-216-170-00	METAL GLAZE 68 5% 1/8W	
R1403	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1404	1-216-178-00	METAL GLAZE 150 5% 1/8W	
R1405	1-249-434-11	CARBON 27K 5% 1/4W	
R1407	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1408	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1409	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1410	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1411	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1412	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1413	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1414	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1415	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1416	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1417	1-216-023-00	METAL GLAZE 82 5% 1/10W	
R1418	1-247-738-11	CARBON 82 5% 1/2W	F
R1419	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1420	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1421	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1422	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1423	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1424	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1425	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R1426	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1427	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1428	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1429	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1430	1-216-170-00	METAL GLAZE 68 5% 1/8W	
R1431	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1432	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R1433	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1434	1-249-393-11	CARBON 10 5% 1/4W	F
R1437	1-249-434-11	CARBON 27K 5% 1/4W	
R1440	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R1441	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R1442	1-216-089-00	METAL GLAZE 47K 5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1446	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1448	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1449	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1452	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1453	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1460	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1464	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1476	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1477	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1515	1-216-117-00	METAL GLAZE	680K	5%	1/10W	(KV-X2552U ONLY)
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R1520	1-216-113-00	METAL GLAZE	470K	5%	1/10W	(KV-X2552U ONLY)
	1-216-111-00	METAL GLAZE	390K	5%	1/10W	(KV-X2952U ONLY)
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R1550	1-216-349-00	METAL OXIDE	1	5%	1W F	(KV-X2952U ONLY)
R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	

<VARIABLE RESISTOR>

RV1501	1-238-023-11	RES, ADJ, CARBON 470K	
RV1502	1-238-016-11	RES, ADJ, CARBON 10K	
RV1503	1-238-017-11	RES, ADJ, CARBON 22K	
RV1504	1-238-012-11	RES, ADJ, CARBON 1K	
RV1505	1-238-023-11	RES, ADJ, CARBON 470K	
RV1506	1-238-017-11	RES, ADJ, CARBON 22K	
RV1507	1-238-009-11	RES, ADJ, CARBON 220	
RV1508	1-238-016-11	RES, ADJ, CARBON 10K	
RV1509	1-238-023-11	RES, ADJ, CARBON 470K	

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MISCELLANEOUS
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⚠	1-460-091-11	COIL, DEGAUSS	(KV-X2552U ONLY)
⚠	1-426-535-11	COIL, DEGAUSSING	(KV-X2952U ONLY)
⚠	1-451-311-21	DEFLECTION YOKE (Y25FXA)	(KV-X2552U ONLY)
⚠	1-451-313-21	DEFLECTION YOKE (Y29FXA)	(KV-X2952U ONLY)
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
⚠	1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)	(KV-X2952U ONLY)
	1-544-727-11	SPEAKER (7.5X13CM)	
⚠	1-590-762-11	CORD, POWER (WITH PLUG)	
V901 ⚠	8-733-231-05	PICTURE TUBE (A59JWC61X)	(KV-X2552U ONLY)
⚠	8-733-831-05	PICTURE TUBE (A68JYL61X)	(KV-X2952U ONLY)

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ACCESSORIES AND PACKING MATERIALS
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PART NO.	DESCRIPTION	REMARK
4-200-874-61	MANUAL, INSTRUCTION (ENGLISH)	
*4-034-981-01	CUSHION (UPPER) (ASSY)	(KV-X2552U ONLY)
*4-200-876-01	CUSHION (UPPER) (ASSY)	(KV-X2952U ONLY)
*4-035-035-01	CUSHION (LOWER) (ASSY)	(KV-X2552U ONLY)
*4-200-879-01	CUSHION (LOWER) (ASSY)	(KV-X2952U ONLY)
*4-035-040-01	INDIVIDUAL CARTON	(KV-X2552U ONLY)
*4-200-884-01	INDIVIDUAL CARTON	(KV-X2952U ONLY)
*4-380-340-01	BAG, PROTECTION	(KV-X2552U ONLY)
*4-384-027-01	BAG, PROTECTION	(KV-X2952U ONLY)

REMOTE COMMANDER

1-465-796-11	CONTROL UNIT, REMOTE	(RM-816)
4-031-670-01	COVER, POCKET	(FOR RM-816)